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PLANTS COLLECTED AND TESTED BY THOMAS A. EDISON AS POSSIBLE SOURCES OF DOMESTIC RUBBER

Agricultural Research Service
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PLANTS COLLECTED AND TESTED BY THOMAS A. EDISON AS POSSIBLE SOURCES OF DOMESTIC RUBBER

Compiled by Loren G. Polhamus, collaborator, Crops Research Division

INTRODUCTION

German dependence on strategic materials imported from sources outside its own borders facilitated victory by the nations allied against Germany in World War I. Military blockades were successful in creating critical shortages of such materials inside Germany. Rubber was not available from any domestic source and was an important example of a material essential to national welfare but in critical shortage in war-time. German efforts to develop a satisfactory synthetic rubber were unsuccesful and motorized transportation was hindered by a lack of tires. This marked the first time in the history of the world that rubber, or rather the lack of rubber, had been a decisive factor in warfare. Rubber had found important usage in previous wars, but chiefly for the protection of soldiers from the elements. World War I was the first major conflict in which motorized transport was essential for the rapid movement of men and materiel. It was in the light of these international developments that Mr. Edison became interested in investigating all possible domestic plant sources of rubber.

SUMMARY

In the early part of the 1920's, political, industrial, and military leaders in the United States became concerned that the rapidly expanding rubber plantation industry in the Far East had become our chief source of natural rubber. Wild sources of natural rubber had become relatively unimportant and no longer able to supply a significant portion of the needs of the United States for rubber. There was a danger that the United States might be cut off from its chief source of rubber in case of war or epidemic plant disease.

Four outstanding leaders in the United States initiated separate action designed to alleviate the dependence of the United States on sources of rubber on the far side of the world.

Harvey Firestone initiated a plantation program in Liberia and was highly successful in fostering an industry that, in 1964, had reached a total of 244,724 acres of rubbertrees on estates and native plantings in Liberia.

Henry Ford obtained a large concession of land in Brazil on the Tapajos River near where Henry Wickham had obtained the seed that became the nucleus of the rubber plantation industry in the Far East. His first plantation at Fordlandia failed because of the South American leaf blight, a virulent fungus disease. He moved his center of operations to Belterra, a plateau area lower on the Tapajos. The leaf blight again became a serious problem and this time it was overcome by a program of top-building the high-yielding trees with disease-resistant tops. After reaching the stage of successful rubber production, the plantation was sold to the Brazilian Government.

Herbert Hoover, then Secretary of Commerce, requested and obtained an appropriation from the Congress of the United States to investigate all sources of crude rubber and, through the United States Department of Agriculture, to encourage rubber production in Latin America and the Philippines. Intensive and extensive surveys of sources of rubber were made and the results published to form the most comprehensive information anywhere available on rubber production and marketing in the 1920's. The Department of Agriculture initiated plantings of rubber plants in the United States, Haiti, and Panama.

Thomas A. Edison initiated a search for a plant that could be grown in the United States as a domestic source of rubber. From the initiation of this effort in 1927 until his death in 1931, Edison's chief activity was given over to this search. He organized surveys of the native plants of the United States and appealed to other agencies, including the Department of Agriculture, for assistance in obtaining foreign plants that might be included in his studies. He collected and tested thousands of plants and those reported herein include 2,222 species in 977 genera. A total of 186 natural plant families were represented in the tests and, of these, 114 families were represented by at least 1 plant each with a significant amount of rubber. Thirty families had at least one sample with over 2 percent rubber, based on the dry weight of the sample tested. The plants included in the tests were collected in 40 States, and representatives of 178 natural plant families out of the 186 families represented in the total collection were collected in New Jersey and Florida.

BOTANICAL SOURCES OF RUBBER

In the beginning of rubber cultivation (Polhamus, 23)[1] many plants of great diversity were studied. These included species of *Ficus* in the Far East, *Funtumia* in Africa, *Parthenium* (guayule) in Mexico and the United States, *Castilla* in the Americas, and *Hevea*, first in its native homeland in South America, but soon in Africa and the Far East. It is probable that the Central American rubbertree, *Castilla elastica* Cerv., was the first rubber plant to be planted commercially. Plantings of *Castilla* were made in Mexico soon after the middle of the 19th Century--well before the plantings of *Hevea brasiliensis* Muell-Arg. in the Far East after Wickham's exploit in transferring seeds from Brazil to England in 1876. Early in the exploitation of wild *Hevea* trees in the Amazon Valley, native tappers made plantings around their campsites that might well have been the first actual plantings. On the other hand, pre-Columbian usage of rubber in games and religious rites from Peru to Mexico might well have led to the planting of *Castilla*, even though there is no specific record of such planting.

The Para rubbertree, *Hevea brasiliensis*, has now replaced all other sources of cultivated rubber. Early tests showed that this tree could be planted in much of the tropical portion of the world. Lack of political security, insufficient supplies of labor, adverse climate, unsuitable soil, and lack of interest restricted the planting of *Hevea* in most of the tropics. Significant progress in rubber planting was made only in a small area centering on Singapore where governmental stability provided the economic climate necessary to growth and development. A large native population provided labor for planting, cultivating, and harvesting the rubber. Good soil, adequate and well-distributed rainfaill, and uniform temperature were excellent for rubber cultivation. Well-equipped research centers manned by outstanding experts contributed greatly to the success of the industry.

GEOGRAPHICAL SOURCES OF RUBBER

Rubber production in 1900 was almost entirely from wild trees; but by 1912 the rapidly expanding plantation industry was supplying 50 percent of the new rubber entering commercial channels. This plantation industry was centered in a relatively small area in the Far East. The rapid development of motorized equipment and the demand for more and more rubber made the United States dependent, for the first time, on a source of supply of a major commodity on the opposite side of the world at such a distance that protection of the lines of supply would be difficult in a major conflict. The sense of security engendered by the successful outcome of World War I was greatly tempered by the terrible lessons learned from the experiences of the vanquished. A major lesson was that armies thereafter would be highly dependent on rapid transportation and that this must be by motorized equipment requiring that the wheels be shod with rubber, the only material known that would provide reliable traction and long wear.

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[1] Underscored figures in parentheses refer to literature cited at the end of the report.

Most strategic materials not present in the United States are available from more than a single foreign source. If one source were eliminated by military or economic action, other sources could be called upon. Wide geographical separation of the sources would give protection against being severed from all sources. In the beginning of the 20th century, when it was necessary to obtain rubber from wild sources, such sources were widely scattered in the tropical areas of the Americas, Africa, and Asia. Before the start of World War I, the production of cultivated rubber had outstripped that of wild rubber and the rapid development of rubber usage was already requiring more rubber than could be supplied from both sources. By the end of the war, wild rubber production in Africa and Asia was dwindling and becoming less important in relation to the rapidly expanding need for rubber. Rubber production outside of southeastern Asia (chiefly in South America), including both wild and cultivated rubber, had decreased only from 44,500 long tons in 1900 to 37,500 long tons in 1920; but in 1900 the 44,500 tons represented 99 percent of world production of rubber, whereas the 37,500 tons in 1920 represented only 11 percent of world production.

Continental and island areas wihin a short distance of Singapore (principally in Sumatra, Java, and Malaya) comprised the center of rubber production at the close of World War I. At that time, the United States was the major user of rubber and annually consumed over two-thirds of all the rubber produced throughout the world. Political, industrial, and military leaders in the United States recognized that rubber had become a major strategic material and were concerned because the chief geographical source was on the other side of the world in southeast Asia. Dependence on far-off sources of raw materials was recognized not only as a military weakness but as an "Achilles heel" in economic aggression where such dependence might give excessive advantage to national coalitions or economic boycotts.

Agricultural scientists were also disturbed by the danger of an outbreak of some virulent plant disease in the highly concentrated plantings of rubber. The possibility of such an outbreak had been demonstrated in the Americas where the South American leaf disease (now known as the South American leaf blight, SALB), caused by Dothidella ulei P. Henn., had wiped out Hevea plantings. It was quite evident that this disease (or some other of similar virulence) might destroy the entire rubber plantation industry in the Far East should it become epidemic in that area. American experience with SALB had demonstrated that this disease could cut off sources of rubber more quickly and effectively than any conceivable military action short of actual physical destruction of the planted trees.

AMERICA SHOULD GROW ITS OWN RUBBER

A group of citizens of the United States, joined in friendship through camp and fireside companionship with naturalist John Burroughs, became concerned over the dependence of the United States on distant sources of rubber. Each, in his own way but with advice and encouragement from the others, initiated action that might alleviate that dependency either by increasing production in the Americas or by developing new sources of rubber in tropical areas outside the closely planted localities centering on Singapore. This group consisted in the beginning of an industrialist, president of a rubber manufacturing company, Harvey S. Firestone; an engineer, then Secretary of Commerce, Herbert C. Hoover; and an inventor, Thomas A. Edison. Later, they were joined by another industrialist, a manufacturer of automobiles, Henry Ford.

FIRESTONE'S INVESTIGATIONS

Of the original three, Harvey Firestone, the rubber manufacturer, had the greatest direct involvement in rubber and may well have been instrumental in arousing the interest and enthusiasm of the others. He adopted a slogan, "America should grow its own rubber," and initiated an intensive investigation of sources of rubber outside the Far East. His agents found a 5,000-acre plantation of Hevea rubbertrees in Liberia. This plantation had been planted with low-yielding seedling trees and was in poor condition when taken over by Firestone. It provided a nucleus for expansion while supplying a continuing source of rubber from the beginning of the Firestone Liberian plantation enterprise.

Firestone discontinued the planting of seedling trees and obtained the best available planting material developed in the Far East. At the same time he recruited a research staff to breed new strains of rubbertrees and improve on methods of rubber production. The efforts were highly successful and, in 1964, some 244,724 acres of high-yielding rubbertrees on estates and native plantings in Liberia attest to the foresight and energy of this industrialist dedicated to the development of sources of rubber outside the narrowly restricted area in the Far East where the production of plantation rubber had had its beginning and spectacular development.

FORD'S PLANTATIONS

Henry Ford, as a major manufacturer of automobiles, had a high stake in sources of rubber not subject to military or economic restrictions. Ford looked to Latin America for a suitable site for rubber planting and found what appeared to be an ideal site in the Amazon Valley of Brazil. He obtained from the Government of Brazil an enormous concession of land on the Tapajos River near where Wickham in 1876 had collected the Para rubbertree seeds that formed the nucleus of the rubber plantation industry in the Far East. High-yielding planting material was imported from the Far East, and an active project of plantation development and rubbertree planting was initiated.

Unfortunately, the plantings became badly infested with the South American leaf blight, a virulent leaf disease native to South America and, so far, restricted to the Americas. Disease conditions made it impossible to continue with the original plantation, which had been christened "Fordlandia," and a more favorable site was sought. A promising area was found lower down the Tapajos River where conditions appeared to be superior to those at Fordlandia. The new area consisted of an enormous, almost-level plateau in contrast to Fordlandia which consisted of rolling hills and valleys. The Hevea tress had survived on the tops of the hillocks at Fordlandia but had been devastated by leaf blight elsewhere. It was though that wind drainage had served to protect the trees on the hillocks at Fordlandia and it was hoped that the plateau character of the topography at the new location would serve to give the same protection from the disease there. All but a small portion of the original concession at Fordlandia was traded to the Brazilian government for a new concession at the new location which then became known as "Belterra."

The hope that the trees would be protected from leaf blight by the wind drainage at Belterra proved unfounded. Severe infestation by leaf blight soon halted the growth of the new plantings. None of the high-yielding selections imported from the East proved resistant to the disease; but several local selections from the Amazon Valley were found to be highly resistant and some were almost immune. At that time there was no known method of protecting the trees from the blight by the use of fungicides, and tests were made to determine the possibility of topworking the susceptible, high-yielding trees with disease-resistant though unproved (for yield) selection. These first tests were conceived and conducted largely by the late W. T. Bangham, who had been loaned by the Goodyear Tire and Rubber Company on a cooperative basis to assist the Ford enterprise. Because of his private employment and consequent hesitation to publish his scientific data, much of the credit due this outstanding scientist for this and other important innovations in the science of rubber culture has never been fully acknowledged.

Intensive investigation of the protection of *Hevea* from leaf blight by topworking was initiated by the United States Department of Agriculture as a part of a program of cooperative research on rubber production in Latin America that was organized in 1941 (Rands and Polhamus, 25). Sorensen (27) showed that top-budding of *Hevea* trees could be successful in providing healthy crowns of leaves despite the presence of leaf blight. After this demonstration of the feasibility and value of topworking, a program of topworking the entire Ford estate at Belterra was instituted. In this program, it was found possible to provide the trees with healthy crowns of leaves that contributed to rapid, sustained growth of the original high-yielding stems. The success of this program (Brandes, 3) was dramatic and a flourishing 17,000-acre plantation took the place of the leafless, diseased, dying plantings that existed before the program was initiated. The plantation was sold later to the government of Brazil for a nominal amount--but not until Ford had carried it to the stage of successful rubber production.

HOOVER'S CONTRIBUTION

As Secretary of Commerce, Herbert Hoover was instrumental in obtaining a Congressional appropriation in 1922 for studying the sources of rubber and, through the United States Department of Agriculture, encouraging the production of rubber in Latin America and the Philippines. Survey parties of the Department of Commerce, together with representatives of the Department of Agriculture, made intensive surveys of both wild and cultivated rubber production throughout the world. The findings of these surveys were published (Figart, 6; Holt, 14; Schurtz *et al*., 26; Treadwell *et al*., 29; Vance *et al*., 30; Vander Laan, 31; Whitford and Anthony, 32) and furnish a valuable source of reference as to rubber production in the 1920's. Simultaneously, the Department of Agriculture initiated plantings of rubber plants in southern Florida, Haiti, and in the Canal Zone. Tapping tests were initiated (Polhamus, 20) on a small planting of *Hevea* rubbertrees at Bayeux on the northern coast of Haiti, and seeds from this source were used to start plantings on the Canal Zone and adjacent areas of Panama.

EDISON'S SURVEYS AND COLLECTIONS

Thomas A. Edison was impressed by the activities of the Intercontinental Rubber Co. (Carnahan, 5; McCallum, 16; Spence, 28) in obtaining rubber from wild plants of guayule, *Parthenium argentatum* A. Gray, in Mexico and cultivating guayule in the United States. Edison studied the rubber plant surveys of Fox (7, 8, 9, 10); Hall and Goodspeed (12); and Hall and Long (13). He familiarized himself with the studies (not yet published at that time) being conducted by the United States Department of Agriculture on the desert milkweeds (Beckett and Stitt, 1; Beckett et al., 2) and on foreign plants such as species of *Alstonia*, *Castilla*, *Cryptostegia* (Polhamus *et al*., 24), *Ficus*, *Funtumia*, *Hevea*, *Manihot*, *Mascarenhasia*, and others.

On the basis of these studies, Edison decided to investigate the possibility of finding a rubber plant that could be grown domestically to provide a home-grown source of rubber. In the beginning, he decided that the investigations of the Intercontinental Rubber Co. on guayule were so detailed and extensive that further study by him was unnecessary. He chose, therefore, to concentrate on other native plants, not, however, overlooking the possibility of finding a foreign plant that might be grown as a domestic source of rubber. For such plants, he appealed to many agencies throughout the world, including the United States Department of Agriculture, which furnished him planting material of many plants foreign to United States that had been included in the Department's studies at the Plant Introduction Garden at Coconut Grove, Fla.

Species of *Ficus*

In the beginning of his work on rubber, Edison concentrated upon the known types of latex-bearing plants that had been introduced into or were native to Florida. Most abundant of the known rubber-bearing genera in the Florida collections available to Mr. Edison were the numerous species of *Ficus*, mostly introduced but some of them native to Florida.

One of the first recorded activities of Mr. Edison after the initiation of his work on rubber was a visit to the gardens of Henry Nehrling near Naples as related by Alfred and Elizabeth Kay (15). These authors quoted Dr. Nehrling as follows: "In the spring of 1927 Mr. Thomas A. Edison, the celebrated inventor, spent a day with me in my gardens here at Naples, making notes on the many Ficus species that I cultivate,--their correct botanical names, age, native habitat, and the quality and quantity of their milky sap. With the exception of *Ficus elastica*, he found only one species that met with his approval as a rubber-yielding plant--*F. utilis* of southeast Africa. I have a third one that is described as a first-class rubber-yielding plant, *F. vogelii* of tropical West Africa, but my specimen was too small to be used in Mr. Edison's tests. After we had looked all over the plants in the grounds, both Mr. and Mrs. Edison studied my books, manuscripts and photographs with profound interest. It was inspiring to see Mr. Edison at work,--thorough, modest, and most systematic in everything he did."

Tapping Tests

Even before his visit to the Nehrling garden, Mr. Edison had initiated tapping experiments with *Ficus* trees growing near his laboratory at Fort Myers, Fla. He had noted that the latex flow stopped soon after tapping and attributed the cessation of flow to oxidation of the exposed latex. This led him to attempt to devise a closed system for tapping that would allow the latex to continue flow for a much longer time. He also believed that the tapping of pine trees might be greatly improved by the development of a closed system to prevent the hardening of the outflowing resins and cessation of flow. He conducted experiments simultaneously on pine trees and *Ficus* trees, and later on *Hevea* trees in Haiti.

Edison's idea was to fasten a tapping unit tightly to the tree so as to eliminate all leakage other than into the receptacle provided to catch the latex. Tapping was to be done with an augur, and reopening of the cut when needed was to be by increasing the diameter of the cut. To maintain and increase the fluidity of the exuding latex as well as to control the rate of flow, the device was to be equipped with a water chamber that would discharge water at a predetermined rate to the cut. In tapping pine trees, tests were also made with the use of turpentine instead of water.

Edison's tapping devices were not successful either with the *Ficus* trees or in the tapping of pine trees. About 2 years after the first tests with closed system devices, Mr. Edison sent two representatives to Haiti where a small planting of *Hevea* trees had been tapped under the auspices of the United States Department of Agriculture (Polhamus 20). Tests were conducted on virgin (untapped) trees and on high-yielding trees that had been under tap previously. The tests were unsuccessful, and on June 7, 1929, Mr. Edison wrote to Frank Campbell, secretary to Henry Ford that the tests in

Haiti were being discontinued since his men had reported "that the usual statement, that the latex system of Hevea trees is all connected together, is false in every particular."

Thus the failure of the tapping device when used on Hevea trees was attributed to an untrue conclusion of inexperienced men on the basis of only two weeks of tests with incisions limited to 3/16-inch holes.

Surveys of American Plants

In 1927, Edison prepared to make intensive surveys of native plants that might be possible sources of domestic rubber. The following letter was sent to a prospective plant collector and typifies Edison's thinking in initiating the surveys:

> I am engaged in an investigation looking toward the production of rubber in the United States from plants, bushes, shrubs, etc. which can be planted by acreage and harvested with reapers. To this end I desire to collect and examine as completely as possible the various species of the plants, bushes, shrubs, etc. which contain a rubber-bearing latex, and to accomplish this result I intend to engage several field men who have specialized in botany. The compensation would be one hundred dollars a month and expenses, and the field to be covered would be in Southern States up to as far north as New Jersey. The term for this work would be in the summer months.

On July 1, 1927, Edison sent a second letter in which he emphasized the importance of latex plants and particularly the Euphorbias:

> I am enclosing the Instructions for Collecting latex-bearing plants, in accordance with our previous correspondence; which please read carefully.....
>
> I am also sending to you an incomplete list of the Euphorbias. It is the Euphorbias that promise to be the best kind of plant for my purpose.
>
> I have stated in what places the plants are found wherever I have been able to find them in the sources of my information. The United States has not been thoroughly explored, and I think that many plants mentioned as growing in foreign countries will be found also in the United States. Lists of the Asclepiadaceae, Apocynaceae, and other families will be sent to you in the near future as soon as I get your first address on the road. None of these are as promising as the Euphorbiaceae.
>
> For each one of the plants received by me from you men in the field, a herbarium card will be made, and identification will be sought by comparison at the herbaria of botanical gardens in Washington, New York and other places.
>
> We are fortunate in having one criterion that is certain, and that is, the latex flow on cutting.
>
> If a new species is discovered, the finder will get the credit.

On July 12, 1927, Mr. Edison decided to relieve the field collectors of responsibility for collecting the common plants that might be assumed to be available near his New Jersey laboratory in abundance. Mr. Meadowcroft, assistant to Mr. Edison, wrote:

> Mr. Edison desires me to request that you will not collect specimens of the ordinary variety of milkweed, nor of sumac, thistles or wild lettuce. We have an abundance of these around here.
>
> So long as the plants give latex and are not of the kind above specified, there need be no special delay by reason of your trying to identify the plants collected. We shall send one out of each bundle of your specimens to the New York Botanical Gardens for identification.

On July 15, Mr. Meadowcroft wrote as follows:

> In pursuance of Mr. Edison's direction, I am sending to you herewith a copy of the Bulletin (323) issued by the U.S. Department of Agriculture, entitled "How to collect, label, and pack living plant material for long-distance shipment." Mr. Edison says you will find some very useful information in this Bulletin.

> In packing and shipping your collection of plants, let me once more emphasize that you should be careful not to cover up the leaves too closely with packing. Any packing around the leaves should not go all the way up and should be light and very loose. The leaves of a few specimens so far received (not necessarily from you in particular) have rotted and fallen off.

By November 20, 1927, in a note on the margin and back of a letter from J.N. Rose of the Smithsonian Institution, to serve in preparing a reply, Mr. Edison indicated confidence in his methods of collecting and identifying plants for analysis. In connection with this discussion, he stated, "The strange thing about this scheme (referring to his scheme of collecting plants) is that we find latex is no indication of rubber. We are finding it in plants without latex. The Arnold Arboretum let me cut shoots from 302 plants and these are being tested, many have rubber and no latex."

Thus early in Edison's program to find native plants that might be cultivated for rubber it was recognized that rubber might be found in plants that did not have latex. This discovery undoubtedly led to a much wider collection of plants and the ultimate selection of goldenrod, which contains no perceptible latex, as the outstanding local plant, from the standpoint of rubber content, of the thousands that were collected and tested.

Edison's Personal Contribution

Mr. Edison devoted a major portion of his time to his rubber work from 1927 until his death in 1931. During this time he became well acquainted with the work of the Intercontinental Rubber Co. on the cultivation of guayule in the Southwestern States. He became quite friendly with G.H. Carnahan, the energetic president of Intercontinental and conducted cooperative tests of automobile tires made of guayule rubber. Edison was quoted at that time as believing that guayule was the No. 1 American rubber plant.

Mr. Edison's personal contribution to the work on rubber during the 1927-31 period consisted first in the organization, supervision, and financing of the plant collecting activities. All instructions and communications with the collectors were handled by him personally or through his personal secretary. He examined all collections and even audited the expense accounts of the collectors. In the laboratory testing of the collections, Mr. Edison required that the dried benzol extract from every specimen be placed on his desk. He carefully tested the physical characteristics of each sample and determined at that time what further tests should be conducted, often requiring that the extract be repurified, and re-examining the product to see if the quality of the rubber had been improved. Sometimes he requested a re-analysis of the specimen and sometimes a duplicate collection from the exact site where the specific collection had been made originally.

Receipt, Identification, and Initial Record of Specimens

In addition to the collections made by his own agents, Mr. Edison also received plant specimens from volunteer collectors who heard of his efforts and wished to contribute to their success. A major contribution to the success of the surveys was made by the Union Pacific Railroad, officials of which, at the request of Edison, directed each section foreman to make collections of locally available plants along the right of way and forward them to the Edison laboratories for tests. This resulted in the receipt of thousands of samples of plants, from areas not covered by Edison's own collectors and thus giving him representative plants from a much wider area.

In all, some 17,000 samples of plants were received at the Edison laboratories in West Orange, N.J. Despite the careful instructions given to all collectors, many of the samples were received in a decaying condition. Others lacked flowers, fruit, roots, or other plant parts needed for identification. A total of 13,344 specimens were identifiable at least as to genus. There were, of course, many duplicates, but a total of 2,222 species were represented. These were classified in 977 genera and 186 natural plant families. This represents by far the largest group of plant samples collected and tested for rubber content by any investigator. It still outnumbers the total of all other investigators, including Fox (7, 8, 9, 10), Hall and Goodspeed (12) Hall and Long (13) prior to Edison's collections and, after his work, Buehrer and Benson (4), Mitchell et al. (18), Moxon and Whitehead (19), and Polhamus (21, 22) in the United States and Minshall (17) in Canada.

The identification of the samples of plants submitted for analysis was a major problem. In a note prepared for transmission to J.N. Rose of the Smithsonian Institution, Mr. Edison stated, ". . . the method I have adopted for procuring plants has proved very good. My men cut everything in sight--about 2 lbs. for each. The men do not have to know the plants. They bring them to the laboratory tied up in bundles. From each we make a herbarium specimen, then the bunch is dried and tested for rubber. In the meantime we take our herbariums to Rutgers College where Britton's State Herbarium is stored and identify the plants and record them in our herbarium."

After Mr. Edison's death, the Department of Agriculture arranged to have a card file made of all of the tests, with the hope that the results of the tests could be assembled and published as a memorial to Mr. Edison. The importance of the project was recognized by Mr. Ford who paid the expenses of the cataloging. In connection with this sork, all the herbarium specimens were boxed and sent to Washington where the identification of all specimens was rechecked by the late Sydney F. Blake. Later, when the outbreak of World War II again forced active consideration of our sources of rubber, a further check of the identifications and the nomenclature was made by Doris Hayes of the United States Forest Service. Thus every effort has been made, both by Mr. Edison and by others since his death, to assure the accuracy of the plant identifications.

Testing for Rubber Content

As stated above, as soon as a plant sample was received in the laboratory, an herbarium specimen was taken and preserved for botanical identification. At that time a collection number was assigned to the sample for use in identifying the sample with the botanical nomenclature and the laboratory findings. In the case of the samples collected by Edison's own employees, their numbers were used. These numbers were consecutive by State of collection. Thus the first sample collected by Hand in Virginia was Hand Va. 1. The next was Hand Va. 2, etc. Whenever a state border was crossed, the numbering sequence for the new state was used and thus West Virginia numbers or North Carolina numbers might be interspersed with the Virginia numbers in actual order or date of collection.

An E. P. C. (Edison Plant Collection) series was established for samples collected by individuals, often Edison himself, connected with the rubber investigations but not assigned solely to plant collection. The samples submitted by employees of the Union Pacific Railroad and by volunteers and others not connected with the Edison work, were assigned M (for miscellaneous) numbers in sequence as they were received at the laboratory.

In the laboratory, each sample was given a serial laboratory number for use during the testing for rubber content. The part of the plant represented by the sample submitted to the laboratory was recorded. The designation "whole" (W) indicated that the entire sample was ground up and tested without any attempt to separate it into individual parts. This does not mean that the sample tested was a uniform, composite sample of the entire plant. It merely indicates that the entire sample as received was ground up. It may have been predominantly leaves, or might have had no leaves.

The designation "stem" indicated that the sample consisted of twiggy material, including true main stems, branches, pedicels, penduncles, etc. In the carding of the results of the laboratory tests, the designations given as to the type of material tested was recorded. However, in many cases, no designation was made and it was not possible to determine what plant part was tested. In such cases, the part tested is questioned and a question mark was used to indicate the plant part tested. In the latter part of the tests, after it had been found that in most cases the highest percentages of rubber were found in the leaves, only the leaves were collected. Thereafter, it was taken for granted that only the leaves were used. In tabulating these tests, the plant part tested had to be indicated by a question mark, since no designation had been made in the laboratory. A greater percentage of the "?" designations than of the "W" (whole) designations therefore would be of leaves only.

Testing Procedure

The specimen to be tested for rubber content was first dried in an oven and then ground. A test sample was next weighed out and the remaining powder retained for future use if needed. The test sample was placed in a soxhlet extractor for rubber determination. Each sample was first treated with acetone to remove the nonrubber constituents of the plant that might be soluble in benzol. This acetone extract was designated as "resin" and discarded without further examination and without any record of amount. After the extraction with acetone, the sample was first freed of acetone and then extracted with benzol. The benzol extract was then placed in an open dish and the benzol evaporated off. The extract was weighed and designated "rubber."

The dried benzol extract was submitted to Edison, himself, who examined the glob of rubber and recorded the quality of each sample in relation to his own estimate of pure rubber. He made notes on color--white, black, red, brown; physical character--stiff, hard, tacky, sticky, dry; and elasticity--good, fair, poor elastic, strong, weak, long, short. If a sample showed either a high proportion of rubber or a particularly good type of rubber, collectors were requested to collect fresh samples in the same area where the original sample was obtained to recheck the analysis. In some cases, also, a recheck was made of the remaining portion of the original sample that had been retained after grinding.

In many cases, Edison, on the basis of this examination, would mark the sample NR indicating his belief that, in spite of the test results, the material extracted was not rubber. At other times, he would request that the sample be repurified. This usually, though not always, resulted in a loss in weight and sometimes Edison would indicate that the quality of the extract was improved. At other times, he would indicate NR even though there was an appreciable residue. The possibility of oxidation of the rubber in the chemical purification of the extract evidently was completely overlooked. In carding and in the tabulations reported herein, the laboratory test results are used in all cases even though Edison may have noted NR on the basis of his physical examination of the extract.

In the latter stages of Edison's plant surveys and in most of the tests of cultivated plants from his experiments at Fort Myers, the method of determining rubber content by double extraction with acetone and benzol was abandoned and a bromination method was adopted. In this method, benzol was used to extract all solubles (in benzol) from the ground sample. A solution of bromine in carbon tetrachloride was added to the extract to transform the rubber portion to rubber bromide. The bromide was then precipitated with alcohol and washed on a vacuum filter with additional portions of alcohol to separate it from the nonrubber substances extracted by the benzol. It was determined empirically that the rubber bromide was 28.5 percent (0.285) rubber and this factor was used in converting dried rubber bromide to rubber for use in calculating the rubber content of the sample.

The bromination method of analysis was found to be much more rapid than the soxhlet extraction method. The 28.5 percent factor used for conversion to rubber was not accurate as shown later by Gowans and Clark (11) and Willits et al. (33). Since the 0.285 factor was used for all tests, the results were comparable. The factors found by Willits et al. (0.292) and by Gowans and Clark (0.301 for guayule rubber, 0.299 for

Hevea rubber) would indicate that the true rubber contents should be slightly higher than those shown.

Since the rubber was not extracted as such, Edison's examination of the rubber for quality was no longer possible but the actual identification of rubber in the plant was much more precise than formerly, since nonrubber constituents of the plant could not longer be included with the rubber.

In studying and comparing the results of the laboratory tests, Edison came to the conclusion that a convenient dividing point between promising and less promising plants was to consider as promising those with at least one specimen with a rubber content of 2.00 percent of the dry weight of the plant or higher. He therefore separated the various species on this basis. Unfortunately, this separation is often meaningless and, in the comparison of related species, indicates merely that the species with rubber contents over 2.00 percent had been collected in greater quantity, in a more favorable locality, or at a time of year conducive to high rubber content. In the present tabulation, therefore, the separation of species into those with 2.00 percent rubber or higher and those with less than 2.00 percent rubber has been dropped.

Plants Collected and Tested by Edison

The plants collected and tested by Edison are listed in table 1. The listing is alphabetical by genus with species arranged alphabetically under the genera. The common name of the genus, if any, has been inserted in parentheses immediately following the Latin name for the convenience of those who may be more familiar with the plant under the more popular designation. After the common name, there is inserted the name of the natural plant family in which the genus is classified. The tabulation of collection and test data is by species. In listing the species the common name, if available, is inserted in parentheses immediately following the name of the species and the test data then follow in the tabular columns. In all cases, the insertion of common names for genera or species is solely for the convenience of non-taxonomists. No attempt has been made to list all common names and the names given are not necessarily those most commonly used or preferred. The identification of the plants is solely on the basis of the Latin names given.

TABLE 1.--Plants collected and tested for rubber content under the leadership of Thomas A. Edison

[For footnotes to Table 1 see page 169]

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
			Number	Percent	Percent	Percent
Abelia (abelia), CAPRIFOLIACEAE.						
A. grandiflora (Andre) Rehd. (glossy abelia).	Ga.	Leaves	2	1.23	2.50	1.86
	Fla.	Whole	1	0		
Abies (fir), PINACEAE.						
Abies sp. ?------------------------------	N.J.	Whole	1	.03		.03
Abronia (sandverbena), NYCTAGINACEAE.						
Abronia sp.------------------------------	Colo.	Whole	1	0		
Abrus (rosarypea), LEGUMINOSAE.						
A. praecatorius L. (Jequirity rosarypea)-	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
Abutilon (abutilon), MALVACEAE.						
A. theophrasti Medic. (chingma abutilon, piemarker).	Kans., N.J.	Leaves	4	0	.05	.01
	Kans., N.J., U.P.	Whole	9	0	.22	.02
Abutilon sp.----------------------------	Fla., Tex.	Leaves	3	0		
	Fla.	Stems	1	0		
	Fla.	Root bark	1	0		
	U.P.	Whole	1	0		
	Fla.	?	2	0		
Acacia (acacia), LEGUMINOSAE.						
A. farnesiana (L.) Willd. (sweet acacia)-	Fla.	Leaves	1	.56		
	Fla.	Stems	1	Tr.		
	Fla.	Whole	1	0		
Acacia sp.------------------------------	Nev.	Whole	2	0	0	0
	Fla.	?	1	0		
Acalypha (copperleaf), EUPHORBIACEAE.						
A. gracilens A. Gray (slender copperleaf)	N.C., N.J.	Leaves	2	0	.31	.16
	Fla., N.J., Va.	Whole	6	0	0	0
A. ostryifolia Riddell (hophornbeam copperleaf).	Fla., Ga.	Leaves	3	0	0	0
	Fla.	Whole	1	0		
A. virginica L. (Virginia copperleaf)----	Ga.	Leaves	1	0		
	N.J.	Whole	1	.12		
A. wilkesiana Muell. Arg. (painted copperleaf).	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
Acalypha sp.----------------------------	Fla.	Leaves	1	.16		
	Fla.	Stems	1	.13		
Acanthochiton, AMARANTHACEAE.						
A. wrightii Torr.------------------------	Nev.	Whole	1	0		
Acanthospermum (starbur), COMPOSITAE.						
A. australis (L.) Kuntze (Paraguay starbur).	Fla.	Whole	3	0	.56	.19
A. hispidum DC.-------------------------	Fla.	Leaves	2	0	.08	.04

TABLE 1.--Continued

Plant[1]	Collected in [2,3]	Laboratory tests for rubber				
		Part tested [4,5]	Tests	Low	High	Mean
Acer (maple), ACERACEAE.						
A. carolinianum Walt. See A. rubrum L.			Number	Percent	Percent	Percent
A. floridanum (Chapm.) Pax. (Florida maple).	Fla.	Leaves	3	0	0	0
	Fla.	Stems	2	0	.04	.02
A. negundo L. (boxelder)----------------	Fla., Ga., N.C., S.C.	Leaves	9	0	1.30	.14
	Fla.	Stems	2	0	.17	.08
A. negundo L. ?------------------------	Utah	Leaves	1	0		
	Nebr.	Whole	1	0		
A. rubrum L. (red maple)----------------	Fla., Ga., N.C., S.C.	Leaves	9	0	1.30	.14
	Fla.	Stems	2	0	.17	.08
	Fla.	Whole	1	0		
Acerates (acerates), ASCLEPIADACEAE.						
A. Angustifolia (Nutt.) Dcne.-----------	Okla.	No tests.				
A. floridana (Lam.) Hitchc.-------------	Fla., Ga.	Whole	2	0	1.71	.80
A. viridiflora (Raf.) Eaton (green acerates, green milkweed).	U.P.	Whole	1	1.94		
Achillea (yarrow), COMPOSITAE.						
A. lanulosa Nutt. (western yarrow)------	Oreg., U.P.	Whole	5	0	1.15	.44
A. millefolium L. (common yarrow)-------	Fla., N.C.	Leaves	5	.73	1.85	1.11
	Fla., Idaho, N.J., N.C., Wash., Wyo., U.P.	Whole	12	0	1.28	.30
	Fla.	?	2	0	1.28	.64
Achras zapote L. See Manilkara zapotilla.						
Achyranthes, AMARANTHACEAE.						
Achyranthes sp.-------------------------	Fla.	Leaves	2	0	0	0
Acnida (Waterhemp), AMARANTHACEAE.						
A. cannabina L. (Tidemarsh waterhemp)---	Fla., N.J.	Whole	2	0	0	0
A. cuspidata Bert.----------------------	Fla., Ga.	Leaves	2	.02	.21	.12
	Fla.	Stems	1	.06		
	Fla.	Whole	2	0	.09	.04
Acnida sp.------------------------------	Fla.	Leaves	3	0	0	0
	Fla.	Stems	1	0		
	Fla., Kans.	Whole	3	0	0	0
	Fla.	?	2	0	0	0
Acrostichum, POLYPODIACEAE.						
A. daneifolium Langsd. & Fisch.---------	Fla.	Leaves	4	0	.37	.17
	Fla.	Stems	2	0	.10	.05
	Fla.	Whole	4	0	.06	.02
Acrostichum sp.-------------------------	Fla.	Whole	1	0		
Actaea (baneberry) RANUNCULACEAE.						
A. alba (L.) Mill. (white baneberry)----	N.J.	Leaves	1	0		

TABLE 1.--Continued

Plant[1]	Collected in [2,3]	Laboratory tests for rubber				
		Part tested [4,5]	Tests	Low	High	Mean
			Number	Percent	Percent	Percent
Actinea (actinea) COMPOSITAE.						
A. richardsoni (Hook.) Kuntze (Colorado rubberweed).	N. Mex. N. Mex.	Roots Whole	1 1	9.17 .04		
A. richardsoni floribunda (A. Gray) Cory = *Hymenoxys floribunda* (A. Gray) Cockerell.	N. Mex.	Whole	1	.05		
Actinea sp.	N. Mex., Tex.	Whole	3	0	2.81	.94
Actinomeris = *Ridan*, COMPOSITAE.						
A. squarrosa Nutt. = A. alternifolia (L.) DC.	N.C., Va., W. Va.	Leaves	4	.37	2.08	1.27
Actinospermum, COMPOSITAE.						
A. angustifolium (Pursh) Torr. & Gray	Fla. Fla.	Leaves Whole	1 1	0 .03		
Adiantum (maidenhair), POLYPODIACEAE.						
A. pedatum L. (American maidenhair)	N.C.	Leaves	1	0		
Aeschynomene (jointvetch), LEGUMINOSAE.						
A. virginica L. (sensitive jointvetch)	Fla.	Whole	2	0	0	0
Aesculus (buckeye; horsechestnut), HIPPOCASTANACEAE.						
A. octandra Marsh. (yellow buckeye)	S.C.	Leaves	1	0		
A. pavia L. (red buckeye)	Fla.	Leaves	2	0	0	0
Afzelia. See *Seymaria*.						
Agastache (gianthyssop), LABIATAE.						
A. nepetoides (L.) Kuntze (catnip gianthyssop).	N.J.	Leaves	1	Tr		
A. scrophulariaefolia (Willd.) Kuntze (figwort gianthyssop).	N.J.	Leaves	2	Tr	1.94	.97
Agastache sp.	N.J.	Whole	1	.03		
Agave (agave), AMARYLLIDACEAE.						
A. americana L. (centuryplant agave)	Fla.	Leaves	1	.12		
A. decipiens Baker	Fla. Fla. Fla.	Leaves Stems Whole	1 1 1	0 .28 0		
Agave sp.	Fla., Ga.	Whole	4	0	Tr	
Agdestis, PHYTOLACCACEAE.						
A. clematidea Moc. & Sesse ?	Fla.	Whole	1	.02		
Ageratum (ageratum), COMPOSITAE.						
A. houstonianum Mill. (Mexican ageratum).	La.	Leaves	1	.17		
Ageratum sp.	N.J.	Whole	1	.30		

TABLE 1.--Continued

Plant[1]	Collected in [2, 3]	Laboratory tests for rubber				
		Part tested [4, 5]	Tests	Low	High	Mean
Agrimonia (agrimony), ROSACEAE.			Number	Percent	Percent	Percent
A. incisa Torr. & Gray	Fla.	Leaves	1	0		
A. parviflora Ait. = A. eupatoria Michx. not L.	N.J., N.C., Va.	Leaves	4	0	Tr	Tr
	N.J., N.C., S.C.	Whole	4	0	Tr	Tr
A. pubescens Wallr. = A. mollis (Torr. & Gray) Britt.	Fla.	Whole	1	0		
A. striata Michx. (roadside agrimony)	N.J.	Leaves	2	0	Tr	Tr
Agrimonia sp.	Ga., N.J.	Leaves	2	0	0	0
	Fla., N.J., N.C., W. Va.	Whole	6	0	.01	Tr
Agropyron (wheatgrass), GRAMINEAE.						
A. repens (L.) Beauv. (quackgrass)	Idaho	Whole	1	2.50		
Agropyron sp.	Kans.	Whole	1	.83		
Ailanthus (ailanthus), SIMARUBACEAE.						
A. altissima (Mill.) Swingle (tree of heaven).	Ga.	Leaves	1	0		
Akebia (akebia), LARDIZABALACEAE.						
A. quinata Dcne. (fiveleaf akebia)	N.J.	Leaves	1	.21		
Albizzia (albizzia), LEGUMINOSAE.						
A. julibrissin (Willd.) Durazz. (silktree albizzia).	Fla., S.C.	Leaves	5	0	0	0
Aletris (stargrass), LILIACEAE.						
A. aurea Walt.	Fla.	Whole	1	0		
A. bracteata Northrop	Fla.	Whole	1	0		
A. farinosa L. (whitetube stargrass)	N.J.	Leaves	1	0		
Aleurites, EUPHORBIACEAE.						
A. fordii Hemsl. (tungoiltree)	Fla.	Leaves	1	0		
	Fla.	Fruit	1	0		
A. moluccana Willd. (candlenut tree)	Fla.	Leaves	2	0	.28	.14
	Fla.	Stems	1	.11		
Alisma (waterplantain), ALISMACEAE.						
A. subcordatum Raf. (subcordate waterplantain).	N.J.	Leaves	1	0		
Alisma sp.	Utah, U.P.	Whole	3	0	.03	.01
Allamanda (allamanda), APOCYNACEAE.						
A. cathartica L. (common allamanda)	Fla.	Leaves	5	1.01	4.00	1.68
	Fla.	Stems	2	0	.09	.04
Allenrolfea (pickleweed), CHENOPODIACEAE.						
A. occidentalis (S.Wats.) Kuntze (pickleweed)	Utah	Whole	1	0		

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Allionia albida Walt. *Oxybaphus albidus* (See Walt.) Sw.						
			Number	Percent	Percent	Percent
Allium (onion), LILIACEAE.						
A. cernuum Roth. (nodding onion)	Tenn.	Leaves	1	0		
A. tricoccum Ait. (wild leek)	N.J.	Whole	1	0		
Alnus (alder), BETULACEAE.						
A. rugosa (DuRoi) Spreng. (hazel alder)	Fla., Ga., N.C., N.J., W.Va.	Leaves	7	0	0	0
	Fla.	Stems	1	0		
	N.J.	Whole	1	.04		
Alnus sp.	S.C.	Leaves	1	0		
Alstonia (alstonia), APOCYNACEAE.						
A. macrophylla Wallr. (deviltree alstonia).	Fla.	Leaves	1	1.58		
	Fla.	Stem	1	.06		
Alternanthera (alternanthera), AMARANTHACEAE.						
A. maritima (Mart.) Standl.	Fla.	Whole	1	0		
A. philoxeroides (Mart.) Griseb. (Alligator alternanthera).	Fla.	Leaves	1	0		
	Fla.	Whole	1	0		
A. ramosissima (Mart.) D. Dietr.	Fla.	Whole	4	0	0	0
A. repens (L.) Kuntze	Fla.	Leaves	1	0		
Alternanthera sp.	Fla.	Leaves	1	.21		
	Fla.	Stems	1	0		
	Fla.	Whole	3	0	0	0
Althaea (althaea), MALVACEAE.						
A. rosea Cav. (hollyhock)	N.J.	Whole	1	.21		
Amaranthus (amaranth), AMARANTHACEAE.						
A. blitoides S. Wats. (prostrate amaranth).	Colo., Idaho, U.P.	Whole	5	0	0	0
A. gracilis Desf.	Fla.	Whole	1	0		
A. graecizans L. (tumbleweed amaranth)	Ga., N.J.	Leaves	2	0	0	0
	Kans., Nebr., N.J., Wash.	Whole	4	0	0	0
A. hybridus L. (slim amaranth)	Fla., N.J.	Leaves	4	0	0	0
	N.J., Kans.	Whole	3	0	.16	.05
A. retroflexus L. (redroot amaranth)	N.J.	Leaves	1	0		
	Calif., Colo., Idaho, Iowa, Kans., Minn., Nebr., N.J., U.P.	Whole	52	0	.08	Tr.
A. spinosus L. (spiny amaranth)	Fla.	Leaves	2	0	0	0
Amaranthus sp.	Fla., Kans.	Leaves	4	0	0	0
	Calif., Colo., Fla., Idaho, Kans., Mont., Nebr., N.J., Oreg., Utah, U.P., Wash.	Whole	62	0	.28	.01
	Fla.	?	4	0	0	0

TABLE 1.--Continued

Plant[1]	Collected in [2,3]	Laboratory tests for rubber				
		Part tested [4,5]	Tests	Low	High	Mean
Amelanchior (serviceberry), ROSACEAE.			Number	Percent	Percent	Percent
Amelanchior sp.------------------------	N.J., Va.	Leaves	4	0	Tr	Tr
Ammannia (ammannia), LYTHRACEAE.						
A. latifolia L.------------------------	Fla.	Whole	2	0	0	0
Ammannia sp.----------------------------	Fla.	Whole	1	0		
Amorpha (amorpha), LEGUMINOSAE.						
A. canescens Nutt. (leadplant amorpha)-	Kans., Nebr., U.P.	Whole	6	0	0	0
A. crenulata Rydb.---------------------	Fla.	Leaves	1	0		
A. dewinkeleri Small ?-----------------	Fla.	Whole	1	0		
A. fruticosa L. (indigobush amorpha)---	Fla.	Leaves	1	0		
A. herbacea Walt. (clusterspike amorpha).	Fla.	Leaves	1	0		
	N.C.	Whole	1	0		
Amorpha sp.----------------------------	Fla., Ga., S.C.	Leaves	9	0	0	0
	Fla.	Stems	1	0		
	Kans., Nebr., S.C., U.P.	Whole	4	0	0	0
	Fla.	?	2	0	0	0
Ampelopsis (ampelopsis), VITACEAE.						
A. arborea (L.) Rusby (peppervine)-----	Fla., Ga., S.C.	Leaves	4	0	.66	.16
	Fla.	Stems	1	0		
	Fla.	Whole	4	0	.01	Tr
	Fla.	?	1	0		
A. cordata Michx. (heartleaf ampelopsis).	Ga., S.C.	Leaves	2	0	0	0
Amphicarpa (hogpeanut), LEGUMINOSAE.						
A. bracteata (L.) Fern. (southern hogpeanut).	Fla., Ga., N.J.	Whole	5	0	0	0
Amphistelma, ASCLEPIADACEAE.						
A. scoparium (Nutt.) Small-------------	Fla.	Stems	2	.69	.76	.72
	Fla.	Whole	1	.27		
Amsonia (amsonia), APOCYNACEAE.						
A. ciliata Walt.-----------------------	Fla., Ga., Okla.	Leaves	2	.53	.73	.63
A. rigida Shuttlw.---------------------	Fla.	Leaves	1	.37		
	Fla.	Stems	1	0		
	Fla.	Whole	1	0		
Amyris (amyris), RUTACEAE.						
Amyris sp.-----------------------------	Fla.	Leaves	1	Tr		
	Fla.	Stems	1	0		
Anantherix, ASCLEPIADACEAE.						
A. connivens (Baldw.) Feay-------------	Fla.	Leaves	1	1.61		
Anaphalis (pearleverlasting), COMPOSITAE.						
A. margaritacea (L.) A. Gray (common pearleverlasting).	N.J.	Leaves	1	1.71		
	N.J., Wash.	Whole	3	.30	.53	.43
	N.J.	?	2	.70	1.31	1.00

TABLE 1.--Continued

Plant[1]	Collected in [2,3]	Laboratory tests for rubber				
		Part tested [4,5]	Tests	Low	High	Mean
			Number	Percent	Percent	Percent
Andropogon (bluestem), GRAMINEAE.						
A. glomeratus L. (bushy bluestem)-------	Fla.	Whole	1	0		
A. hallii Hack. (sand bluestem; sandhill bluestem; turkeyfoot).	U.P.	Whole	1	0		
Andropogon sp.--------------------------	Kans., Nebr., U.P.	Whole	6	0	0	0
Anemia, POLYPODIACEAE.						
A. adiantifolia (L.) Sw. (pinefern)-----	Fla.	Whole	1	0		
Anemone (anemone), RANUNCULACEAE.						
A. virginiana L. (Virginia anemone)-----	Ga., N.J.	Leaves	2	0	0	0
	N.J., Va.	Whole	2	0	.06	.03
Angelica (angelica), UMBELLIFERAE.						
A. villosa (Walt.) B. S. P. (hairy angelica).	Fla., Ga., N.C.	Leaves	4	0	0	0
	Ga., W. Va.	Whole	2	0	0	0
Annona (annona), ANNONACEAE.						
A. glabra L. (pondapple; alligator apple).	Fla.	Leaves	14	0	2.10	.24
	Fla.	Stems	12	0	.09	.02
	Fla.	Whole	1	.31		
Annona sp.----------------------------	Fla.	Leaves	2	0	2.10	1.05
Anoda (anoda), MALVACEAE.						
Anoda sp.-----------------------------	Fla.	No test				
Anntennaria (pussy toes), COMPOSITATAE.						
A. parlinii Fern.---------------------	W. Va.	Whole	1	0		
A. plantaginifolia (L) Richards (plantainleaf pussytoes).	Ga.	Leaves	1	.63		
	N.J., Va.	Whole	2	0	Tr	Tr
Antennaria sp.------------------------	Ga.	Leaves	1	.32		
Anthemis (camomile), COMPOSITAE.						
A. arvensis L. (field camomile)--------	U.P.	Whole	1	0		
A. cotula L. (mayweed camomile)--------	Fla., Ga., Oreg.	Leaves	1	Tr		
	N.J.	Whole	3	0	Tr	Tr
Antigonon (coralvine), POLYGONACEAE.						
A. leptopus Hook. & Arn. (mountainrose coralvine; rosa-de-montana).	Fla., Ga.	Leaves	2	0	0	0
	Fla.	Whole	1	0		
Antirrhinum (snapdragon), SCROPHULARIACEAE.						
A. majus L. (common snapdragon)--------	Fla.	Leaves	1	0		
Apios (potatobean; groundnut), LEGUMINOSAE.						
A. americana Medic. (American potatobean).	Fla., Ga., N.J.	Leaves	5	0	0	0
	Fla.	Stems	2	0	.13	.06
	Fla., S.C.	Whole	6	0	.18	.07

TABLE 1.--Continued

Plant[1]	Collected in [2, 3]	Laboratory tests for rubber				
		Part tested [4, 5]	Tests	Low	High	Mean
Apocynum (dogbane), APOCYNACEAE.			Number	Percent	Percent	Percent
A. androsaemifolium L. (spreading dogbane).	N.J.	Leaves	3	Tr	1.54	.68
	N.J., W. Va., ?	Whole	5	.03	.47	.28
	N.J.	?	1	.89		
A. cannabinum L. (hemp dogbane; Indian hemp).	Fla., Kans., Nebr., N.Y., N.C., S.C., U.P., Utah, Va., W.Va.	Leaves	17	0	4.76	1.40
	Colo., Kans., N.J., U.P., Utah	Whole	14	.17	4.04	.98
	N.J.	?	7	Tr	2.23	1.19
A. pubescens R. Br.	N.J., Pa.	Leaves	2	.40	1.59	1.00
	N.C.	Whole	1	1.20		
	N.J.	?	2	.58	.94	.76
Apocynum sp.	Fla., Kans., Mont., Nebr., Nev., N.J., N.C., Okla., S.C., U.P., Va.	Leaves	12	0	2.18	.67
	Fla., Kans., Nebr., N.J., N.C., S.C., S.Dak., U.P.	Whole	15	0	2.00	.31
	N.J., Pa.	?	2	Tr	2.19	1.20
Arabis (rockcress), CRUCIFERAE.						
A. laevigata (Muhl.) Poir. (smooth rockcress).	N.C.	Whole	1	0		
Arachis (peanut), LEGUMINOSAE.						
A. hypogaea L. (peanut; groundnut)	Fla.	Whole	1	0		
Aralia (aralia), ARALIACEAE.						
A. nudicaulis L. (wild sarsaparilla)	No information					
A. racemosa L. (American spikenard)	N.C., N.J., Va.	Leaves	5	0	Tr	Tr
A. spinosa L. (devils walking-stick; herculesclub; tree aralia).	Fla., Ga., S.C., Va.	Leaves	12	0	.03	Tr
	Fla.	Stems	1	0		
	Fla	?	1	0		
Araucaria (araucaria) PINACEAE.						
Araucaria sp.	Fla.	Leaves	1	0		
Arctium (burdock), COMPOSITAE.						
A. lappa L. (great burdock)	N.J.	Whole	1	.11		
A. minus (Hill) Bernh. (smaller burdock).	Ga., N.C., N.J., S.C., U.P.	Leaves	6	0	.05	Tr
	Idaho, N.J., U.P., Utah, Wash.	Whole	13	0	.15	.04
Arctium sp.	U.P.	Whole	1	.08		
Arctostaphylos (manzanita), ERICACEAE.						
A. uva-ursi (L.) Spreng. (bearberry; kinnikinnick).	Idaho, N.Mex.	Whole	2	.29	.47	.38

TABLE 1.--Continued

Plant[1]	Collected in [2,3]	Laboratory tests for rubber				
		Part tested [4,5]	Tests	Low	High	Mean
Arctotis (arctotis), COMPOSITAE.			Number	Percent	Percent	Percent
A. stoechadifolia Berg. (African arctotis).	Fla.	Leaves	1	0		
Ardisia (ardisia), MYRSINACEAE.						
A. paniculata (Nutt.) Sarg. (marble ardisia).	Fla.	Leaves	14	0	1.81	.21
	Fla.	Stems	9	0	.60	.07
	Fla.	?	1	0		
Argemone (pricklepoppy), PAPAVERACEAE.						
A. alba Lestib. (white pricklepoppy)---	Fla.	Whole	1	0		
A. mexicana L. (Mexican pricklepoppy)--	Fla.	Leaves	2	0	.15	.08
	Fla.	Stems	1	0		
Argemone sp.---------------------------	Colo., Kans., Nebr., U.P.	Whole	10	0	0	0
	Fla.	?	2	0	0	0
Arisaema (jack-in-the-pulpit), ARACEAE.						
A. acuminatum Small--------------------	Fla.	Whole	1	0		
A. dracontium (L.) Schott. (dragonroot jack-in-the-pulpit).	Fla.	Whole	1	0		
	Fla.	?	1	0		
A. triphyllum (L.) Torr. Indian jack-in-the-pulpit).	Ga., N.C., N.J.	Leaves	4	0	Tr	Tr
	Fla., W.Va.	Whole	2	0	0	0
	Fla.	?	1	0		
Aristida (threeawn), GRAMINEAE.						
Aristida sp.---------------------------	U.P.	Whole	1	0		
Aristolochia (dutchmanspipe), ARISTOLOCHIACEAE.						
A. durior Hill (common dutchmanspipe).	N.C.	Leaves	1	0		
A. serpentaria L. (Virginia snakeroot dutchmanspipe).	Fla.	No test				
A. tomentosa Sims. ?------------------	Ga.	Leaves	1	0		
Armoracia, CRUCIFERAE.						
A. lapathifolia Gilib. (horseradish)---	N.J.	Leaves	1	0		
	N.J.	Whole	1	.23		
Aronia (chokeberry) ROSACEAE.						
A. arbutifolia (L.) Ell. (red chokeberry).	Fla., N.C., N.J., Va.	Leaves	9	0	Tr	0
A. melanocarpa (Michx.) Ell. (black chokeberry).	N.C., N.J.	Leaves	2	Tr	.03	.02
A. prunifolia (Marsh.) Rehd. (purplefruit chokeberry).	N.J.	Whole	1	0		
Aronia sp.-----------------------------	N.J.	Leaves	1	0		
	Ga., N.J.	Whole	2	0	.03	.02
	Fla.	?	2	0	0	0

TABLE 1.--Continued

Plant[1]	Collected in [2, 3]	Laboratory tests for rubber				
		Part tested [4, 5]	Tests	Low	High	Mean
Artemisia (sagebrush; wormwood), COMPOSITAE.			Number	Percent	Percent	Percent
A. absinthium L. (common wormwood)------	N.J.	Leaves	1	Tr		
	Ga.	Whole	1	.40		
A. albula Woot. (silverking sagebrush)--	N. Mex., Tex.	Whole	8	0	1.33	.29
A. annua L. (sweet wormwood; sweet mugwort).	Tenn.	Leaves	1	.07		
A. aromatica A. Nels.------------------	Utah	Whole	1	.63		
A. biennis Willd. (biennial wormwood)---	Colo., Utah	Whole	2	0	.44	.22
A. bigelovii A. Gray (Bigelow sagebrush)	N. Mex.	Whole	5	0	0	0
A. brittonii Rydb. (Brittons sagebrush)-	N. Mex.	Whole	4	.40	.88	.61
A. camporum Rydb.----------------------	Nebr., N. Mex., U.P.	Whole	3	.09	1.56	.78
A. cana Pursh (silver sagebrush)--------	Wyo.	Whole	1	0		
A. carruthii Wood (Carruth sagebrush)---	N. Mex., U.P.	Whole	3	0	0	0
A. cuneata Rydb.-----------------------	Tex.	Leaves	1	.45		
	N. Mex.	Whole	1	0		
A. diversifolia Rydb. (mixleaf sagebrush).	U.P.	Whole	1	1.75		
A. douglasiana Bess.-------------------	Oreg.	Whole	1	2.29		
A. dracunculoides Pursh (falsetarragon sagebrush).	Idaho, Kans., Nebr., N. Mex., Oreg., U.P., Utah, Wash., Wisc.	Whole	16	0	2.06	.40
A. filifolia Torr. (sand sagebrush)-----	Calif.	Leaves	1	.20		
	Calif.	Stems	1	Tr		
	N. Mex., Tex., U.P.	Whole	9	0	.90	.41
A. frigida Willd. (fringed sagebrush)---	Colo., Mont., Nebr., N. Mex., U.P., Wash.	Whole	10	0	1.12	.19
A. gnaphalodes Nutt. (cudweed sagebrush).	Idaho, Kans., Nebr., N. Mex., U.P., Wash.	Whole	19	0	.63	.23
A. lindheimeriana Scheele (Lindheimer sagebrush).	Ga.	Leaves	2	.28	.42	.35
	Ga.	Stems	1	.04		
	Fla., Ga., Kans., Tex.	Whole	9	.11	6.91	.97
A. longifolia Nutt. (longleaf sagebrush).	Idaho, Mont., U.P.	Whole	3	0	.53	.28
A. ludoviciana Nutt. (Louisiana sagebrush).	Tex.	Leaves	1	.27		
	N. Mex., Tex.	Whole	2	0	.80	.40
A. neomexicana Greene (New Mexican sagebrush).	N. Mex.			No test.		
A. pabularis A. Nels.------------------	Nebr., U.P.	Whole	8	0	.47	.13
A. purshiana Bess. (Pursh sagebrush)----	Nebr., U.P., Utah	Whole	3	0	.70	.41
A. rhizomata A. Nels.------------------	N. Mex.	Whole	1	0		

TABLE 1.--Continued

Plant[1]	Collected in [2, 3]	Laboratory tests for rubber				
		Part tested [4, 5]	Tests	Low	High	Mean
Artemisia (sagebrush; wormwood), COMPOSITAE--Continued			Number	Percent.	Percent	Percent
A. texana Rydb. (Texas sagebrush)	N. Mex.	Whole	2	.20	.33	.26
A. tridentata Nutt. (big sagebrush)	Wyo.	Leaves	1	.27		
	Idaho, N. Mex., U.P., Utah, Wyo.	Whole	12	0	.11	.02
A. tripartita Rydb. (threetip sagebrush)	U.P.	Whole	1	0		
A. vulgaris L. (mugwort wormwood)	N.J.	Leaves	2	Tr	1.77	.88
A. wrightii A. Gray (Wrights sagebrush)	N. Mex.	Whole	3	0	.12	.04
Artemisia sp.	Fla.	Leaves	1	.25		
	Colo., Idaho, Kans., Nebr., N. Mex., Oreg., Tex., U.P., Utah, Wash.	Whole	38	0	.90	.19
Aruncus (goatsbeard), ROSACEAE.						
A. sylvester Kost. (sylvan goatsbeard)	N.C.	Leaves	1	0		
Arundinaria (cane), GRAMINEAE.						
A. gigantea (Nutt.) Chapm. (giant cane)	Fla.	Whole	1	0		
A. tecta (Walt.) Muhl. (switch cane)	La.	Leaves	1	0		
	Ga., N.C.	Whole	2	0	0	0
Arundinaria sp.	Ga.	Whole	1	0		
Asarum (wild ginger), ARISTOLOCHIACEAE.						
A. arifolium Michx. (arum wild ginger)	Ga., N.C.	Leaves	2	0	0	0
A. canadense L. (Canada wild ginger)	N.C.	Leaves	1	0		
Asclepias (milkweed), ASCLEPIADACEAE.						
A. amplexicaulis J. E. Smith	Fla.	Leaves	1	3.50		
	Fla.	Whole	1	4.40		
	N.J.	?	1	Tr		
A. arenaria Torr.	Nebr., U.P.	Whole	3	.33	.93	.69
A. curassavica L. (bloodflower milkweed)	Nev.	No test				
A. exaltata L. (Poke milkweed)	N.C.	Leaves	1	1.49		
	Mass.	Whole	1	.08		
	N.J.	?	1	2.93		
A. humistrata Walt.	Fla., Ga.	Leaves	3	0	1.63	.87
A. incarnata L. (swamp milkweed)	Fla., N.J., U.P., Va.	Leaves	6	.15	1.73	.99
	Fla.	Stems	2	0	Tr	Tr
	Okla., U.P.	Whole	5	.04	.21	.15
	N.J.	?	5	0	2.71	1.48
A. incarnata pulchra (Ehrh.) Pers. hairy swamp milkweed).	N.J.	?	2	Tr	2.16	1.08

TABLE 1.--Continued

Plant[1]	Collected in [2,3]	Laboratory tests for rubber				
		Part tested [4,5]	Tests	Low	High	Mean
Asclepias (Milkweed) ASCIEPIADACEA--Continued			Number	Percent	Percent	Percent
A. *Kansana* Vail (Kansas milkweed)	Kans.	Leaves	1	3.12		
A. *lanceolata* Walt. (marsh milkweed)	Ga.	Leaves	1	1.54		
	Fla.	Whole	3	.62	1.68	1.15
A. *mexicana* Cav. (Mexican milkweed)	Nev.	Whole	2	.34	.91	.62
A. *obovata* Ell. ?	Utah	Leaves	1	.71		
A. *pulchra* Ehrh.	N.C.	Leaves	1	.31		
	N.J.	Whole	1	.41		
	N.J.	?	1	2.82		
A. *pumila* (A. Gray) Vail (plains milkweed).	Okla.	No test				
A. *purpurascens* L. (purple milkweed)	W.Va.	Leaves	1	2.83		
A. *quadrifolia* Jacq.	W. Va.	Whole	1	0		
A. *rolfsii* Britt.	Fla.	Leaves	8	Tr	2.84	1.24
	Fla.	Stems	1	0		
	Fla.	Whole	1	0		
	Fla.	?	1	1.14		
A. *speciosa* Torr. (showy milkweed)	Kans., Nebr., U.P.	Leaves	5	1.60	4.73	2.71
	Colo., Idaho, Kans., Minn., Nebr., Nev., Oreg., U.P.	Whole	29	.07	3.37	.79
A. *syriaca* L. (common milkweed)	N.C., Va.	Leaves	3	.71	3.35	2.10
	N.J.	Whole	1	.17		
	N.J.	?	6	.57	3.74	2.35
A. *tomentosa* Ell.	Fla.	Leaves	2	2.23	2.56	2.40
A. *tuberosa* L. (butterfly milkweed)	Fla., Ga., N.C., N.J., Tenn.	Leaves	6	1.35	4.93	2.92
	N.J., S.C.	Whole	2	.35	2.11	1.23
	Fla.	Flowers	1	0		
	N.J.	?	3	Tr	2.79	1.75
A. *variegata* L.	Ga., N.C., W.Va.	Leaves	4	.43	3.75	1.83
	S.C.	Whole	1	0		
A. *verticillata* L. (whorled milkweed)	Ga.	Whole	1	1.19		
A. *viridula* Chapm.	Fla.	Whole	1	.09		
	Fla.	?	1	1.14		
Asclepias sp.	Fla., Nebr., N.C., U.P., Va.	Leaves	13	0	4.83	1.28
	Fla.	Seeds	1	0		
	Fla.	Roots	1	0		
	Fla.	Bark	1	0		
	Colo., Idaho, Kans., Nebr., N.J., U.P., Utah, Wash., ?	Whole	22	1.21	0	.31
	Fla., N.J.	?	2	Tr	1.62	.81

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
			Number	Percent	Percent	Percent
Asclepiodora (antelopehorn), ASCLEPIADACEAE.						
A. feayi Chapm.	Fla.	Whole	2	.11	.80	.46
A. viridis (Walt.) A. Gray	Fla.	Leaves	1	.15		
	Fla., Ga.	Whole	2	.71	1.03	.87
	Fla.	?	1	0		
Ascyrum, HYPERICACEAE.						
A. edisonianum Small?	Fla.	Leaves	2	0	0	0
A. hypericoides L. (St. Andrews-cross)	Fla., N.C., S.C.	Leaves	14	0	.29	.02
	Fla.	Stems	1	0		
	Fla., N.J., N.C., Va.	Whole	8	0	0	0
A. linifolium Spach	Ga.	Leaves	1	.08		
	Fla.	Whole	1	0		
A. stans Michx. (Atlantic St. Peterswort)	Fla., Va.	Leaves	2	0	0	0
	N.C., S.C.	Whole	2	0	0	0
A. tetrapetalum (Lam.) Vail	Fla.	Leaves	1	0		
Ascyrum sp.	Fla.	Leaves	2	0	0	0
Asimina (pawpaw), ANNONACEAE.						
A. angustifolia A. Gray (slimleaf pawpaw)	Fla.	Leaves	1	0		
A. incana (Bartr.) Exell (woolly pawpaw).	Fla.	Leaves	1	0		
A. obovata (Willd.) Nash (big-flower pawpaw).	Fla.	Leaves	4	0	0	0
	Fla.	Whole	1	0		
A. parviflora (Michx.) Dunal (smallflower pawpaw).	Fla., Ga.	Leaves	6	0	1.47	.33
A. pulchella (Small) Rehdr & Dayton (slimpetal pawpaw).	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
	Fla.	Fruit	1	0		
A. pygmaea (Bartr.) A. Gray (sprawling pawpaw).	Fla.	Leaves	1	0		
A. reticulata Shuttlw. in Chapm. (seminoletea pawpaw).	Fla.	Leaves	8	0	.14	.02
	Fla.	Stems	5	0	.08	.02
A. speciosa See *A. incana*						
A. triloba (L.) Dunal (common pawpaw)	Ga.	Leaves	1	0		
Asimina sp.	Fla., Ga.	Leaves	4	0	.13	.03
	Fla.	?	1	0		
Asparagus (asparagus), LILIACEAE.						
A. falcatus L. (sicklethorn asparagus)	Fla.	Leaves	1	Tr		
A. officinalis L. (garden asparagus)	N.J.	Leaves	1	0		
	Colo., Ga., Kans., Oreg., U.P.	Whole	5	0	0	0
Asparagus sp.	Wash.	Whole	2	0	0	0

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Aster (aster), COMPOSITAE.			Number	Percent	Percent	Percent
A. adnatus Nutt.--------------------------	Fla.	Leaves	1	2.71		
	Fla.	Whole	2	.40	.57	.48
A. camptosorus Small----------------------	Ga.	Leaves	1	.23		
A. carolinianus Walt. (Carolina aster)----	Fla.	Leaves	8	0	2.00	.35
	Fla.	Stems	4	0	.36	.09
	Fla.	Whole	2	.23	.27	.25
	Fla.	?	2	0	.57	.28
A. commutatus crassulus (Rydb.) Blake-----	Colo., U.P.	Whole	2	.19	.37	.28
A. concolor L.	S.C.	Whole	1	.64		
A. cordifolius L. (Heartleaf aster)-------	N.J., N.C., Va., W. Va.	Leaves	5	0	3.27	1.36
	N.J., Va.	Whole	4	0	.17	.05
	N.J.	?	3	Tr	3.90	2.56
A. crassulus. See *A. commutatus crassulus*.						
A. divaricatus L. (whitewood aster)-------	N.J., N.C., Tenn.	Leaves	4	0	.44	.11
	N.J.	?	1	1.71		
A. dumosus L. (bushy aster)---------------	Ala., N.J.	Leaves	2	Tr	1.09	.54
A. ericoides L. (heath aster)-------------	Colo., Kans., Nebr.	Whole	3	0	.49	.19
	N.J.	?	2	Tr	2.73	1.36
A. eryngiifolius Torr. & Gray-------------	Fla.	Whole	1	.22		
A. exiguus (Fern.) Rydb.------------------	Colo.	Whole	1	.44		
A. exilis Ell.----------------------------	Fla.	Whole	2	.20	1.05	.62
A. fendleri A. Gray-----------------------	Tex.	No test				
A. gracilis Nutt.-------------------------	Va.	Whole	1	.60		
A. infirmus Michx.------------------------	N.J., N.C.	Leaves	2	Tr	.60	.30
A. laevis L. (smooth aster)---------------	N.J., N.Y.	Leaves	2	2.19	2.67	2.43
	N.J., W. Va.	Whole	3	0	.39	.19
	N.J., Va.	?	9	Tr	4.10	2.65
A. linariifolius L. (savoryleaf aster)----	Ga., S.C., Va.	Whole	4	0	.57	.30
	N.J.	?	3	Tr	2.39	1.58
A. lowrieanus Porter (Lowrie aster)-------	N.J.	?	1	1.98		
A. macrophyllus L. (bigleaf aster)--------	N.J., N.C.	Leaves	2	0	3.70	1.85
	N.J.	Whole	1	.12		
	N.J.	?	5	0	2.45	1.35
A. novae-angliae L. (New England aster)---	N.J.	Whole	3	.11	.20	.15
	N.J.	?	5	0	2.56	1.15
A. novi-belgii L. (New York aster)--------	N.Y., N.C.	Leaves	3	.50	1.82	1.21
	N.J.	?	1	3.19		
A. paludosus Ait. (singlestem bog aster)--	Tenn.	Leaves	1	1.70		
A. paniculatus Lam. (panicled aster)------	Va.	Leaves	1	2.07		
	Va.	Whole	1	1.18		
	N.J., Pa.	?	4	1.85	3.45	2.68

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested [4, 5]	Tests	Low	High	Mean
Aster (aster), COMPOSITAE.--Continued			Number	Percent	Percent	Percent
A. patens Ait. (skydrop aster)----------	Ga., Va.	Leaves	2	1.27	2.27	1.77
	N.J.	Whole	1	.16		
	N.J.	?	3	Tr	2.36	1.57
A. pilosus Willd.-----------------------	Fla., Ga., N.C., S.C.	Leaves	4	.81	1.30	1.08
	Ala., Ga., N.C., S.C., Va., W. Va.	Whole	8	0	1.66	.43
A. pilosus demotus Blake----------------	N.J., N.C., Va.	Whole	9	.13	1.73	.56
	N.J.	?	4	.71	2.25	1.10
A. puniceus L. (swamp aster)------------	N.J., N.C., Va., W.A.	Leaves	9	0	2.51	1.38
	N.J.	?	7	Tr	3.30	1.77
A. reticulatus Pursh--------------------	Fla., Ga.	Leaves	6	0	2.49	1.25
	Fla.	Stems	1	Tr		
	Fla.	Whole	2	0	.38	.19
A. sagittifolius Wedem. (arrow aster)----	N.J., Tenn.	Leaves	2	1.48	3.36	2.42
	N.J.	?	3	2.59	4.61	3.63
A. schreberi Nees. ? (Schreber aster)----	N.J.	Leaves	1	Tr		
A. spectabilis Ait. (seaside aster)------	N.J.	?	1	2.11		
A. spinosus Benth. (devilweed aster)-----	Tex.	Whole	1	2.07		
A. spinulosus Chapm.--------------------	Fla.	Whole	1	0		
A. squarrosus. See A. walteri						
A. tradescanti L. (tradescant aster)-----	N.C.	Whole	1	.28		
A. umbellatus Mill. (flattop aster)------	N.J., N.Y.	Leaves	2	2.68	4.19	3.44
	N.J.	?	6	Tr	2.25	1.06
A. undulatus L. (wave aster)------------	Fla., Ga., N.Y., N.C., S.C.	Leaves	5	.77	2.91	1.92
	N.J.	Whole	1	.17		
	N.J., Pa.	?	3	1.88	3.56	2.58
A. vimineus Lam. (small white aster)-----	N.J.	Whole	2	.03	.13	.08
A. walteri Alexander (Walter aster)------	Fla.	Whole	2	.91	1.11	1.01
Aster sp.------------------------------	Fla., Ga., La., N.C., Va.	Leaves	13	0	3.38	.99
	Fla.	Stems	2	0	0	0
	Fla., Ga., Idaho, Kans., Mont., Nebr., N.J., N. Mex., N.C., S.C., U.P., Utah, Va.	Whole	37	0	2.02	.35
	Fla., Va.	?	14	Tr	3.42	1.31
Astralagus (loco; milkvetch; poisonvetch), LEGUMINOSAE.						
Astralagus sp.--------------------------	Colo., Kans., Tex., U.P.	Whole	5	0	0	0
Atamasco See Zephrantes						
Athyrium, POLYPODIACEAE.						
Athyrium sp.?--------------------------	W. Va.	Whole	1	0		

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Atriplex (saltbush), CHENOPODIACEAE.			Number	Percent	Percent	Percent
A. canescens (Pursh) Nutt. (fourwing saltbush).	Colo.	Whole	1	0		
A. cristata (Jacq.) Standl.	Fla.	Leaves	3	0	0	0
	Fla.	Stems	3	0	0	0
	Fla.	Whole	1	0		
A. hastata L. See *A. patula* var. *hastata*.						
A. patula var. *hastata* (L.) A. Gray (spearleaf fat-hen saltbush).	N.J.	Leaves	2	0	0	0
	N.J.	Whole	1	0		
A. pentandra (Jacq.) Standl.	Fla.	Leaves	1	0	0	
A. rosea L. (tumbling orach)	U.P.	Whole	1	0		
Atriplex sp.	Fla.	Leaves	2	0	0	0
	Fla.	Roots	1	0		
	Colo., Idaho, Nebr., N.Mex., Nev., Oreg., Tex., U.P., Utah, Wash., Wyo.	Whole	56	0	0	0
	Fla.	?	3	0	0	0
Aureolaria (oakleech), SCROPHULARIACEAE.						
A. flava (L.) Farwell	Fla., N.J., S.C.	Leaves	6	0	0	0
A. pectinata (Nutt.) Pennell	Fla.	Whole	1	0		
A. pedicularia (L.) Raf. (Atlantic oakleech).	Ga., N.J.	Leaves	3	0	.03	.01
A. virginica (L.) Pennell (Virginia oakleech).	N.J.	Leaves	4	0	0	0
	N.C.	Whole	1	0		
Aureolaria sp.	Fla., Ga., N.C., S.C.	Leaves	9	0	.03	Tr
	Fla.	?	2	0	0	0
Avena (oats), GRAMINEAE.						
Avena sp.	U.P.	Whole	1	0		
Avicennia, AVICENNIACEAE.						
A. marina (Forsk.) Vierh. See *A. nitida*.						
A. nitida Jacq. (blackmangrove)	Fla.	Leaves	7	.52	3.49	2.07
	Fla.	Stems	5	.25	1.09	.66
Azalea. See *Rhododendron*.						
Baccharis (baccharis) COMPOSITAE.						
B. angustifolia Michx. (narrowleaf baccharis).	Fla., Tex.	Leaves	6	.14	2.69	1.06
	Fla.	Stems	3	0	.11	.04
	Fla.	Whole	4	0	.29	.11
	Fla.	?	4	0	2.99	.75
B. dioica Vahl	Fla.	Leaves	1	0		
	Fla.	?	1	Tr		

TABLE 1.--Continued

Plant[1]	Collected in [2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Baccharis (baccharis) COMPOSITE--Continued			Number	Percent	Percent	Percent
B. glomeruliflora Pers. (southern baccharis).	Fla.	Leaves	9	0	.88	.27
	Fla.	Stems	6	0	.09	.02
	Fla.	?	1	1.85		
B. halimifolia L. (eastern baccharis).	Fla., Ga., La., N.C., S.C.	Leaves	11	0	1.25	.31
	Fla.	Stems	1	0		
	Va.	Whole	1	0		
Baccharis sp.	Fla., Tex.	Leaves	13	0	2.39	.50
	Fla.	Stems	3	0	.06	.02
	La.	Whole	1	.35		
	Fla.	?	2	0	Tr	Tr
Bacopa (waterhyssop), SCROPHULARIACEAE.						
B. caroliniana (Walt.) Robins (Carolina waterhyssop).	Fla.	Whole	2	0	.55	.28
	Fla.	?	2	Tr	1.42	.71
B. monnieri (*B. monnieria*) (L.) Wettst. See *Bramia monnieri*.						
Bambusa (bamboo), GRAMINEAE.						
Bambusa sp. ?	Fla.	Leaves	1	.70		
	Fla.	Stems	1	.08		
Baptisia (wildindigo), LEGUMINOSAE.						
B. alba (L.) R. Br. (white wildindigo).	Fla.	Leaves	1	0		
	Fla.	Seeds	1	0		
B. australis (L.) R. Br. (blue wildindigo).	Okla.	Leaves	1	0		
B. elliptica Small	Fla.	Whole	1	0		
B. lecontei Torr. & Gray (LeConte wildindigo).	Fla.	Leaves	3	0	0	0
B. perfoliata (L.) R. Br. (Georgi wildindigo).	Ga.	Whole	1	0		
B. simplicifolia Croom	Fla.	Leaves	1	0		
B. tinctoria (L.) R. Br. (yellow wildindigo).	N.J., Va.	Leaves	2	0	0	0
	Ga., N.J., N.C., Va.	Whole	7	0	.22	.05
Baptista sp.	Miss., N.J.	Whole	2	0	Tr	Tr
	Fla.	?	1	0		
Barbarea (wintercress), CRUCIFERAE.						
B. vulgaris R. Br. (bitter wintercress).	N.J.	Leaves	1	0		
Barbarea sp.	N.J.	Leaves	2	0	0	0
Bassia (bassia), CHENOPODIACEAE.						
B. hyssopifolia (Pall.) Kuntze (fivehook bassia).	Oreg.	Whole	2	0	0	0
Bassia sp.	U.P., Wash.	Whole	2	0	0	0

TABLE 1.--Continued

Plant[1]	Collected in [2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Batis (saltwort), BATIDACEAE.						
			Number	Percent	Percent	Percent
B. maritima L. (maritime saltwort).	Fla.	Leaves	1	.16		
	Fla.	Stems	1	.15		
	Fla.	Whole	3	0	.19	.06
Batodendron. See Vaccinium.						
Bauhinia (bauhinia), LEGUMINOSAE.						
B. variegata L. (buddhist bauhinia).	Fla.	Leaves	1	.83		
Befaria (befaria), ERICACEAE						
B. racemosa Vent. (tarflower befaria).	Fla.	Leaves	13	0	Tr	Tr
	Fla.	Stems	3	Tr	.29	.11
Begonia (begonia), BEGONIACEAE.						
B. sempiflorens Link & Otto	Fla.	Whole	1	0		
Belamcanda, IRIDACEAE.						
B. chinensis (L.) DC. (blackberrylily).	N.J.	Leaves	1	0		
	N.J.	Whole	1	0		
Benzoin. See *Lindera*.						
Berberis (barberry), BERBERIDACEAE.						
B. aquifolium. See *Mahonia aquifolium*.						
B. fendleri A. Gray (Colorado barberry).	N.Mex.	Whole	2	0	0	0
B. thumbergii DC. (Japanese barberry).	Ga., N.J.	Leaves	2	0	0	0
Berberis sp.	Idaho, N.Mex., U.P., Utah	Whole	4	0	0	0
Berchemia (supplejack), RHAMNACEAE.						
B. scandens (Hill) Trel. (Alabama supplejack).	Ala., Fla., Ga.	Leaves	9	0	0	0
	Fla.	Stems	4	0	0	0
	Fla.	?	2	0	0	0
Berlandiera, COMPOSITAE.						
B. dealbata (Torr. & Gray) Small	Tex.	Whole	1	.67		
B. humilis Small	Fla.	Leaves	2	.04	.88	.46
	Fla.	Roots	1	0		
	Fla.	Whole	1	.30		
B. pumila (Michx.) Nutt.	Fla., Ga.	Leaves	5	.33	2.10	1.37
	Fla.	Stems	1	0		
B. subacaulis Nutt.	Fla.	Leaves	1	1.54		
	Fla.	Whole	2	.21	.25	.23
Berlandiera sp.	Fla.	Leaves	1	0		
	Fla.	Root bark	1	0		
	Fla.	?	1	Tr		

TABLE 1.--Continued

Plant[1]	Collected in [2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Berteroa (false-alyssum), CRUCIFERAE.			Number	Percent	Percent	Percent
B. incana (L.) DC. (hoary false-alyssum).	N.J.	Whole	1	0		
Betula (birch), BETULACEAE.						
B. nigra L. (river birch)	Fla., S.C.	Leaves	2	0	0	0
B. pumila L. (low birch)	N.J.	Leaves	1	0		
Betula sp.	Kans.	Whole	1	0		
Bidens (beggarticks), COMPOSITAE						
B. aristosa (Michx.) Britt. (bearded beggarticks).	N.J.	Leaves	1	Tr		
B. bipinnata L. (spanish-needles beggarticks).	Fla., N.J.	Leaves	4	0	0	0
	Fla., Va.	Whole	5	0	0	0
B. cernua L. (nodding beggarticks)	Oreg., U.P., Va.	Whole	4	0	0	0
B. discoidea (Torr & Gray) Britt. (discoid beggarticks).	N.J.	Whole	1	0		
B. frondosa L. (devils beggarticks)	Ga., N.J., Va.	Leaves	3	0	0	0
	N.C., N.J.	Whole	3	0	.03	.01
B. laevis (L.) BSP (smooth beggarticks)	N.J.	Leaves	1	0		
B. leucantha Willd. (white beggarticks)	Fla.	Leaves	8	0	.30	.05
	Fla.	Stems	3	0	.07	.02
	Fla.	Whole	9	0	.04	.01
	Fla.	?	1	0		
B. polylepis Blake ? (coreopsis beggarticks).	Kans.	Whole	1	0		
B. trichosperma Michx. (ditch-sunflower beggarticks).	N.J.	Whole	1	0		
B. vulgata Greene (tall beggarticks)	Va.	Whole	1	0		
Bidens sp.	Fla., N.J., N.C.	Leaves	11	0	0	0
	Colo., N.J., Va.	Whole	3	0	.03	.01
	Fla.	?	2	0	0	0
Bignonia (bignonia), BIGNONIACEAE.						
B. capreolata L. (crossvine bignonia).	Ala., Fla., La.	Leaves	5	0	.61	.31
	Fla.	Stems	2	0	.05	.02
	Fla.	?	1	1.85		
B. crucigera L. (*Anistostichus crucigera* (L.) Bureau).	Fla.	Leaves	1	0		
B. radicans. See *Campsis radicans*.						
B. venusta. See *Pyrostegia venusta*.						
Bixa (anattotree), BIXACEAE.						
B. orellana L. (anattotree)	No information					
Blechnum (blechnum) POLYPODIACEAE						
B. serrulatum (L.) Rich. (sawfern)	Fla.	Whole	2	0	.09	.04

TABLE 1.--Continued

Plant[1]	Collected in [2,3]	Laboratory tests for rubber				
		Part tested [4,5]	Tests	Low	High	Mean
			Number	Percent	Percent	Percent
Bletia, ORCHIDACEAE.						
B. purpurea (Lam.) DC.	Fla.	Whole	1	0		
Boehmeria (falsenettle), URTICACEAE.						
B. cylindrica (L.) Willd. (smallspike falsenettle).	Fla., Ga., N.C.	Leaves	13	0	.40	.03
	Fla.	Stems	2	0	.32	.16
	Fla., Ga., S.C.	Whole	3	0	0	0
B. drummondii Wedd.	Fla.	Leaves	2	0	0	0
B. nivea (L.) Gaud. (Ramie)	Fla.	?	1	0		
Boehmeria sp.	Fla.	?	3	0	Tr	Tr
Boerhaavia (spiderling), NYCTAGINACEAE.						
B. coccinea Mill. (scarlet spiderling)	Fla.	Whole	1	Tr		
B. erecta L. (erect spiderling)	Fla.	Leaves	1	0		
	Fla.	Whole	1	0		
Boerhaavia sp.	Fla.	Whole	1	0		
	Fla.	?	2	0	0	0
Boltonia (boltonia), COMPOSITAE.						
B. asteroides (L.) L'Her. (white boltonia).	N.J.	Leaves	1	1.10		
	N.J., U.P.	Whole	2	0	.21	.10
B. diffusa Ell.	Ga.	Leaves	1	.63		
	Ala., Fla.	Whole	2	0	.18	.09
Boltonia sp.	Fla.	Whole	1	.45		
Borago (borago), BORANGINACEAE.						
B. officinalis L. ? (common borage)	Va.	Whole	1	0		
Borreria (borreria), RUBIACEAE.						
B. ocimoides (Burm.) DC.	Fla.	?	2	1.85	2.28	2.06
B. terminalis Small	Fla.	Whole	1	.41		
Borreria sp.	Fla.	Leaves	1	4.13		
	Fla.	Whole	2	.08	.88	.48
Borrichia (sea-oxeye), COMPOSITAE.						
B. arborescens (L.) DC. (tree sea-oxeye)	Fla.	Leaves	5	.17	.82	.40
	Fla.	Stems	5	.01	.02	Tr
B. frutescens (L.) DC. (bushy sea-oxeye)	Fla., N.C.	Leaves	10	.07	2.04	.80
	Fla.	Stems	4	0	.03	.01
	Fla.	Bark	1	Tr		
	Fla.	Fruit	2	0	.09	.04
	Fla.	?	2	0	Tr	Tr
Borrichia sp.	Fla.	Leaves	2	.21	.27	.24
	Fla.	Stems	2	0	0	0
	Fla.	Whole	1	0		
	Fla.	?	1	0		
Botrychium (grapefern), OPHIOGLOSSACEAE.						
B. virginianum (L.) Sw. (rattlesnakefern).	W. Va.	Whole	1	0		

TABLE 1.--Continued

Plant[1]	Collected in [2,3]	Laboratory tests for rubber				
		Part tested [4,5]	Tests	Low	High	Mean
			Number	Percent	Percent	Percent
Bougainvillea (bougainvillea), NYCTAGINACEAE.						
B. glabra Chois. (lesser bougainvillea)-	Fla. Fla.	Leaves Stems	1 1	.28 .07		
Bougainvillea sp.-----------------------	Fla. Fla.	Leaves Stems	2 1	0 .05	.24	.12
Bourreria (strongbark), BORAGINACEAE.						
B. revoluta HBK-------------------------	Fla. Fla.	Leaves Stems	1 1	0 0		
Boussingaultia (Madeiravine), BASSELACEAE.						
B. leptostachya Moq.--------------------	Ga.	Leaves	1	0		
Bouteloua (grama), GRAMINEAE.						
Bouteloua sp.---------------------------	No information					
Bradburya. See *Centrosema*.						
Bramia, SCROPHULARIACEAE.						
B. monnieri (L.) Pennell----------------	Fla. Fla.	Whole ?	3 2	Tr 0	.18 0	.08 0
Brasenia (watershield), NYMPHAEACEAE.						
B. schreberi Gmel. (Schreber watershield).	Fla.	Leaves	1	.03		
Brassica, CRUCIFERAE.						
B. juncea (L.) Coss. (India mustard)----	Fla.	Whole	2	0	.03	.01
B. nigra (L.) Koch (black mustard).	N.J., Utah	Whole	3	0	.16	.12
B. oleracea L. (wild cabbage)-----------	Fla.	Whole	1	.07		
Brassica sp.----------------------------	N.J. Idaho, Nebr., N.J., U.P.	Leaves Whole	1 9	Tr 0	 .13	 .01
Breweria (breweria), CONVOLVULACEAE.						
B. aquatica (Walt.) A. Gray-------------	Fla. Fla.	Leaves Whole	1 1	0 0		
B. grandiflora A. Gray------------------	Fla.	Whole	1	0		
B. humistrata (Walt.) A. Gray-----------	S.C.	Leaves	1	0		
B. pickeringii (M.A. Curtis) A. Gray.	Ga.	Whole	1	0		
Breynia (breynia), EUPHORBIACEAE.						
B. nivosa (W.J. Smith) Small (snowbush breynia).	Fla. Fla. Fla.	Leaves Stems Whole	2 2 1	.70 Tr .04	1.70 .13	1.20 .06

TABLE 1.--Continued

Plant[1]	Collected in [2, 3]	Laboratory tests for rubber				
		Part tested [4, 5]	Tests	Low	High	Mean
			Number	Percent	Percent	Percent
Brickellia (brickellia), COMPOSITAE.						
B. brevifolia	No information					
B. californica (Torr. & Gray) A. Gray (California brickellia).	N. Mex.	Whole	1	0		
B. cordifolia Ell.	Fla., Ga.	Leaves	2	0	.01	Tr
B. longifolia S. Wats. (longleaf brickellia).	N. Mex.	Whole	1	0		
B. squamulosa A. Gray	N. Mex.	Whole	1	0		
Brickellia sp.	Nev., N. Mex.	Whole	3	0	Tr	Tr
Bromus (bromegrass), GRAMINEAE.						
B. inermis Leyss.	Oreg., Wash.	Whole	2	0	0	0
Bromus sp.	U.P., Utah	Whole	3	0	0	0
Broussonetia (papermulberry), MORACEAE.						
B. papyrifera (L.) Vent. (common papermulberry).	Fla.	Leaves	2	0	0	0
	?	Whole	1	.13		
Buchnera, SCROPHULARIACEAE.						
B. elongata Sw.	Fla.	Whole	2	0	.03	.01
Buchnera sp.	Fla.	?	4	0	0	0
Buddleia (butterflybush), LOGANIACEAE.						
B. lindleyana Fortune (Lindley butterflybush).	Fla.	Leaves	1	.07		
Buddleia sp.	Fla., Ga.	Leaves	2	0	.29	.14
	Fla.	Stems	1	.04		
	N.J.	Whole	1	.04		
Bumelia (bumelia), SAPOTACEAE.						
B. angustifolia Nutt. (saffronplum bumelia).	Fla.	Leaves	6	1.17	6.00	2.90
	Fla.	Stems	4	0	0	0
	Fla.	?	1	1.49		
B. lanuginosa (Michx.) Pers. (woollybucket bumelia).	Ga.	Leaves	1	.69		
	Ark.	Whole	1	.09		
	Fla.	?	1	0		
B. lyciodes (L.) Pers. (buckthorn bumelia)	N.C., S.C.	Leaves	2	2.00	2.69	2.34
B. reclinata Vent.	Fla.	Leaves	4	.28	5.13	2.12
	Fla.	Stems	2	0	.17	.08
	Fla.	Whole	1	1.27		
	Fla.	?	1	.85		
B. tenax (L.) Willd. (tough bumelia).	Fla.	Leaves	8	0	4.33	1.84
	Fla.	Stems	2	0	0	0
	Fla.	Whole	1	.69		
	Fla.	?	2	0	1.42	.71
Bumelia sp.	Fla.	Leaves	1	3.40		
	Fla.	Stems	1	.05		
	Fla.	?	5	0	2.56	1.12

TABLE 1.--Continued

Plant[1]	Collected in [2,3]	Laboratory tests for rubber				
		Part tested [4,5]	Tests	Low	High	Mean
			Number	Percent	Percent	Percent
Bursera (bursera), BURSERACEAE.						
B. simaruba (L.) Sarg. (gumbolimbo)	Fla.	Leaves	8	0	0	0
	Fla.	Stems	8	0	0	0
	Fla.	Whole	2	0	0	0
Buxus (box), BUXACEAE.						
B. sempervirens L. (common box)	Fla.	Leaves	1	0		
Byrsonima (byrsonima), MALPIGHIACEAE.						
B. lucida DC. (longkey byrsonima)	Fla.	Leaves	2	0	0	0
	Fla.	Stems	2	0	0	0
Cacalia, COMPOSITAE.						
C. atriplicifolia L.	Ga., S.C., Va.	Leaves	5	0	4.05	2.14
C. lanceolata Nutt.	Fla.	Whole	2	.49	1.08	.78
C. ovata Walt.	Fla.	Leaves	6	0	3.59	2.01
	Fla.	Whole	1	.73		
C. reniformis Muhl.	N.C.	?	1	Tr		
C. similis	Okla.	Leaves	2	0	.47	.24
Cacalia sp.	Fla.	?	3	0	.35	.18
Caesalpinia (caesalpinia), LEGUMINOSAE.						
C. crista L. (nickernut caesalpinia)	Fla.	Leaves	3	0	.68	.33
	Fla.	Stems	2	0	0	0
C. nuga (L.) Ait. (woodgossip caesalpinia).	Fla.	Leaves	1	.11		
	Fla.	Stems	1	.03		
C. pulcherrima flava See *Poinciana pulcherrima flava*						
Caesalpinia sp.	Fla.	?	1	0		
Cajanus, LEGUMINOSAE.						
C. indicus Spreng. (pigeonpea)	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
Cakile (searocket), CRUCIFERAE.						
C. lanceolata (Willd.) O. E. Schulz.	Fla.	Whole	3	0	0	0
Cakile sp.	Fla.	?	1	0		
Calamovilfa (sandreed), GRAMINEAE.						
C. longifolia (Hook.) Scribn. (prairie sandreed).	U.P.	Whole	2	0	0	0
Calathea, MARANTACEAE.						
Calathea, sp. ?	Fla.	Whole	1	0		
Calendula (calendula), COMPOSITAE.						
C. officinalis L. (potmarigold calendula).	Fla.	Leaves	2	.07	.08	.08
	Fla.	Stems	1	0		
	Fla.	Flowers	1	.14		

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Callicarpa (beautyberry), VERBENACEAE.			Number	Percent	Percent	Percent
C. americana L. (American beautyberry).	Fla., Ga., N.C., S.C.	Leaves	25	0	2.05	.76
	Fla.	Stems	5	0	.08	.02
	Fla.	?	1	Tr		
Callicarpa sp.----------------------------	Fla.	?	2	0	0	0
Callistemon (bottlebrush), MYRTACEAE.						
Callistemon sp.---------------------------	Fla.	Leaves	2	.03	.07	.05
	Fla.	Stems	2	0	.02	.01
Callitriche (waterstarwort), CALLITRICHACEAE.						
Callitriche sp.---------------------------	Fla.	Whole	1	0		
Calonyction (moonflower), CONVOLVULACEAE.						
C. aculeatum (L.) House (large moonflower).	Fla.	Leaves	2	.21	.37	.29
	Fla.	Stems	2	.09	.18	.14
	Fla.	Whole	5	0	.03	Tr
	Fla.	?	2	0	Tr	Tr
C. tuba (Schlect.) Colla (trumpet moonflower).	Fla.	Leaves	1	0		
	Fla.	Whole	1	0		
Calonyction sp.---------------------------	Fla.	Leaves	1	Tr		
	Fla.	Stems	1	0		
Calopogon (grasspink orchid), ORCHIDACEAE.						
C. simpsonii Chapm.-----------------------	Fla.	Whole	1	.02		
Calotropis (calotrope), ASCLEPIADACEAE.						
C. procera Dry. in Ait. (faftan calotrope).	Fla.	Leaves	1	.80		
Calycanthus (sweetshrub), CALYCANTHACEAE.						
Calycanthus sp.---------------------------	Ga.	Leaves	1	0		
Calyptranthes (lidflower), MYRTACEAE.						
C. pallens (Poir.) Griseb. (pale lidflower).	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
Camelina (falseflax), CRUCIFERAE						
Camelina sp. ?	U.P.	Whole	1	0		
Camellia (camellia; tea), THEACEAE.						
C. japonica L. (common camellia; Japanese camellia).	Fla.	Leaves	1	0		
Camellia sp.------------------------------	Fla., Ga.	Leaves	2	0	0	0

TABLE 1.--Continued

Plant[1]	Collected in [2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
			Number	Percent	Percent	Percent
Campanula (bellflower), CAMPANULACEAE.						
C. americana L. (American bellflower)	N.C., Tenn.	Leaves	2	.72	.73	.72
C. aparinoides Pursh (bedstraw bellflower).	N.J.	Leaves	1	1.14		
C. divaricata Michx. (Allegheny bellflower).	Ga., Va.	Leaves	2	0	.79	.40
	N.C., Va.	Whole	4	0	.37	.15
C. rapunculoides L. (creeping bellflower).	N.J.	?	3	1.28	2.45	1.79
C. rotundifolia L. (bluebell)	N.J.	Whole	1	Tr		
Campsis (trumpet creeper), BIGNONIACEAE.						
C. radicans (L.) Seem. (common trumpet creeper).	Fla., Ga., N.C., S.C., Va.	Leaves	14	0	.80	.36
	Fla.	Stems	1	0		
	Fla., Ga., N.C., S.C.	Whole	6	0	.69	.20
	Fla.	?	1	0		
Canavalia (jackbean), LEGUMINOSAE.						
C. gladiata (Savi.) DC.? (sword jackbean; swordbean).	Fla.	Whole	1	.08		
C. obtusifolia (Lam.) DC. (ground jackbean).	Fla.	Leaves	2	0	0	0
	Fla.	Stems	2	0	0	0
	Fla.	Whole	4	0	.05	.02
Canela (canela), CANELACEAE.						
C. winteriana (L.) Gaertn. (cinnamon canela).	Fla.	Leaves	2	0	.03	.02
	Fla.	Stems	2	0	0	0
Canna (canna), CANNACEAE.						
C. flaccida Salisb.	Fla.	Leaves	3	0	0	0
	Fla.	Whole	2	0	0	0
Canna sp.	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
	Fla.	Flowers	1	0		
	Fla., N.J.	Whole	2	0	.21	.10
Cannabis (hemp), MORACEAE.						
C. sativa L. (hemp)	Kans., Nebr.	Whole	5	0	0	0
Caperonia, EUPHORBIACEAE.						
C. castaneaefolia (L.) St. Hil.	Fla.	Leaves	1	0		
Caperonia sp.	Fla.	?	1	0		
Capnoides. See Corydalis						
Capparis (caper), CAPPARIDACEAE.						
C. argyranthemus Michx.	Fla.	Whole	1	0		
C. cynophallophora L. (Jamaica caper).	Fla.	Leaves	8	0	0	0
	Fla.	Stems	5	0	.02	Tr
C. flexuosa L.	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
Capparis sp.	Fla.	Leaves	2	0	0	0
	Fla.	Stems	1	0		
	Fla.	?	3	0	0	0

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Test	Low	High	Mean
			Number	Percent	Percent	Percent
Capraria, SCROPHULARIACEAE.						
C. biflora L.	Fla.	Whole	2	.04	.23	.14
Capsella (shepherdspurse), CRUCIFERAE.						
C. bursa-pastoris (L.) Medic. (shepherdspurse).	Idaho	Whole	1	0		
Capsicum (red pepper), SOLANACEAE.						
C. frutescens L. (bush red pepper).	Fla.	Leaves	3	0	0	0
	Fla.	Stems	2	0	0	0
	Fla.	Fruit	1	0		
Capsicum sp.	Fla.	Leaves	1	0		
Cardaria (whitetop), CRUCIFERAE.						
C. draba (L.) Desv. (pepperweed whitetop).	U.P.	Whole	1	0		
Cardiospermum (heartseed), SAPINDACEAE.						
C. halicacabum L. (balloonvine heartseed).	Ga.	Leaves	1	.47		
C. keyense Small	Fla.	Whole	2	.09	.31	.20
Cardiospermum sp.	Fla.	?	1	0		
Carex (sedge), CYPERACEAE.						
C. glaucescens Ell.	Fla.	Leaves	1	0		
	N.C., S.C.	Whole	2	0	0	0
Carex sp.	Fla.	Whole	1	0		
Carica (papaya), CARICACEAE.						
C. papaya L. (papaya)	Fla.	Leaves	6	.05	.81	.21
	Fla.	Stems	5	0	0	0
	Fla.	Fruit	3	0	.07	.05
	Fla.	Whole	1	.20		
Carissa (carissa), APOCYNACEAE.						
C. carandus L. ? (Karanda carissa)	Fla.	Leaves	1	.88		
	Fla.	Stems	1	.08		
C. grandiflora DC. (Natalplum)	Fla.	Leaves	2	1.20	1.91	1.56
Carphephorus, COMPOSITAE.						
C. bellidifolius (Michx.) Torr. & Gray.	N.C.	Whole	1	.55		
C. corymbosus (Nutt.) Torr. & Gray.	Fla.	Leaves	1	.15		
C. tomentosus (Michx.) Torr. & Gray.	N.C.	Leaves	1	0		
	S.C.	Whole	1	.06		
Carphephorus sp.	Fla.	Leaves	3	0	Tr	Tr
Carpinus (hornbeam), BETULACEAE.						
C. caroliniana Walt. (American hornbeam).	Fla., N.J., N.C., S.C.	Leaves	7	0	0	0

TABLE 1.--Continued

Plants[1]	Collected in [2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Carya (hickory), JUGLANDACEAE			Number	Percent	Percent	Percent
C. alba Nutt.------------------------------	S.C.	Leaves	1	0		
C. aquatica (Michx. f.) Nutt. (water hickory).	Fla., S.C.	Leaves	5	0	.02	Tr
	Fla.	Stems	2	0	0	0
C. floridana Sarg. (scrub hickory)--------	Fla.	Leaves	1	0		
Carya sp.---------------------------------	Fla., Ga., N.C., S.C.	Leaves	20	0	0	0
	Fla.	Stems	2	0	0	0
	Fla., Kans., N.J.	Whole	4	0	.01	Tr
Caryopteris (bluebeard), VERBENACEAE.						
C. incana Miq. (common bluebeard)---------	Ga.	Leaves	1	0		
Casasia. See Genipa						
Cassia (senna), LEGUMINOSAE.						
C. bahamensis Mill.-----------------------	Fla.	Leaves	1	0		
	Fla	Stems	1	0		
C. chamaecrista. See Chamaecrista fasciculata.						
C. corymbosa Lam. (flowery senna)---------	Ga.	Leaves	1	0		
C. fasciculata. See Chamaecrista fasciculata.						
C. ligustrina L.--------------------------	Fla.	Leaves	4	0	.18	.09
	Fla.	Stems	4	0	.02	Tr
	Fla.	Whole	1	0		
C. marilandica L. (wild senna)------------	Ga., N.J.	Leaves	3	0	0	0
C. nictitans. See Chamaecrista procumbens.						
C. occidentalis L. (coffee senna)---------	Fla.	No test				
C. tora L. (sickle senna)-----------------	Fla.	Leaves	1	.64		
	Fla.	Whole	1	0		
Cassia sp.	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
	Fla.	Whole	1	0		
	Fla.	?	4	0	0	0
Cassythia, LAURACEAE.						
C. filiformis L. -------------------------	Fla.	Whole	1	.02		
Castalia. See Nymphaea.						
Castanea (chestnut; chinkapin), FAGACEAE.						
C. dentata (Marsh.) Borkh. (American chestnut).	N.J.	Leaves	1	0		
C. pumila (L) Mill. (Allegheny chinkapin)-	Fla., Ga., N.C., S.C., Va.	Leaves	6	0	0	0
Castilleja (painted cup), SCROPHULARIACEAE.						
Castilleja sp.	Mont., Utah	Whole	3	0	0	0
	Fla.	?	1	0	0	

TABLE 1--Continued

Plants[1]	Collected in[2 3]	Laboratory tests for rubber				
		Part tested[4 5]	Tests	Low	High	Mean
Catalpa (catalpa), BIGNONIACEAE.			Number	Percent	Percent	Percent
C. bignonioides Walt. (southern catalpa)--	Fla., S.C.	Leaves	3	0	0	0
Caulophyllum, BERBERIDACEAE.						
C. thalictroides (L.) Michx. (blue cohosh).	N.J., N.C.	Leaves	2	0	0	0
Ceanothus (ceanothus), RHAMNACEAE.						
C. americanus L. (Jerseytea ceanothus)----	Ga., N.J., N.C., S.C., Va.	Leaves	13	0	Tr	Tr
	N.J.	Whole	1	.11		
	N.J.	?	1	0		
C. americanus intermedius (Pursh) K. Koch.	Tex., S.C.	Leaves	5	0	0	0
	Fla.	Seeds	1	0		
C. intermedius. See *C. americanus intermedius*.						
C. microphyllus Michx. (sandflat ceanothus).	Fla.	Leaves	1	0		
	Fla.	Whole	3	0	0	0
	Fla.	?	1	Tr		
Celastrus (bittersweet), CELASTRACEAE.						
C. scandens L. (American bittersweet)-----	N.J., W. Va.	Leaves	7	0	1.19	.19
	N.J.	Stems	1	.49		
	N.J.	Roots	1	.27		
	N.J.	Whole	5	.02	.39	.27
	N.J.	?	1	0		
Celosia (cockscomb), AMARANTHACEAE.						
C. argentea cristata (L.) Kuntze (common feather cockscomb).	Ala.	Leaves	1	.10		
	N.J.	Whole	1	.07		
C. cristata. See *C. argentea* cristata.						
Celosia sp. ------------------------------	Fla.	Leaves	1	0		
Celtis (hackberry), ULMACEAE.						
C. georgiana. See C. *pumila georgiana*						
C. laevigata Willd. (sugar hackberry)-----	Fla.	Leaves	4	0	.03	Tr
	Fla.	Stems	2	0	0	0
C. laevigata smallii (Beadle) Sarg.	Fla., Ga.	Leaves	5	0	0	0
	Fla.	Stems	1	0		
C. mississippiensis. See *C. laevigata*.						
C. occidentalis L. (common hackberry).----	N.J.	Leaves	1	0		
C. pumila georgiana (Small) Sarg. (Georgia hackberry).	Ga., Va.	Leaves	2	0	0	0
C. smallii. See *C. laevigata smallii*.						
Celtis sp.--------------------------------	Fla.	Leaves	1	0		
	Kans.	Whole	1	0		
	Fla.	?	1	0		

TABLE 1.--Continued

Plant[1]	Collected in [2, 3]	Laboratory tests for rubber				
		Part tested [4, 5]	Tests	Low	High	Mean
Cenchrus (sandbur), GRAMINEAE.			Number	Percent	Percent	Percent
Cenchrus sp.	Colo., Kans., Nebr., U.P.	Whole	11	0	0	0
Centaurea (centaurea), COMPOSITAE.						
C. imperialis Nort. (royal centaurea).	Fla.	Leaves	1	.77		
	Fla.	Stems	1	0		
C. maculosa Lam. (spotted centaurea)	N.J.	Leaves	1	Tr		
C. nigra L. (black centaurea)	N.J.	Leaves	3	Tr	.68	.23
	N.J.	Whole	1	.12		
C. vochinensis Bernh. (Tyrol centaurea).	N.J.	Leaves	1	Tr		
Centella, UMBELLIFERAE.						
C. asiatica (L.) Urb.	Fla.	?	1	0		
C. repanda (Pers.) Small	Fla.	Whole	2	0	0	0
Centrosema (butterflypea), LEGUMINOSAE.						
C. virginianum (L.) Benth. (coastal butterflypea).	Fla., Ga., N.C.	Whole	4	0	0	0
Cephalanthus (buttonbush), RUBIACEAE.						
C. occidentalis L. (common buttonbush).	Fla., Ga., N.C., S.C.	Leaves	31	0	1.57	.41
	Fla.	Stems	11	0	0	0
	Fla.	Stem bark	1	0		
	Fla.	Root bark	1	0		
	Kans., N.J.	Whole	2	.17	.55	.38
	Fla.	?	1	0		
Cephalanthus sp.	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
Cephalotaxus (plumyew), CEPHALOTAXACEAE.						
Cephalotaxus sp.	Fla.	Leaves	1	0		
Cerastium (cerastium), CARYOPHYLLACEAE.						
C. vulgatum L. (big cerastium)	Fla.	Whole	1	0		
Cerastium sp.	Fla.	?	1	0		
Ceratiola (sandheath), EMPETRACEAE.						
C. ericoides Michx. (sandheath)	Fla.	Leaves	1	0		
	Fla.	Stems	1	.67		
	Fla.	Whole	2	.10	.19	.14
	Fla.	?	1	0		
Cerbera. See Thevetia.						
Cercis (redbud), LEGUMINOSAE.						
C. canadensis L. (eastern redbud)	Fla., Ga., N.C., S.C., Va.	Leaves	11	0	.18	.02
	Kans.	Whole	1	0		

TABLE 1.--Continued

Plant[1]	Collected in [2,3]	Laboratory tests for rubber				
		Part tested [4,5]	Tests	Low	High	Mean
Cercocarpus (mountain mahogany), ROSACEAE.			Number	Percent	Percent	Percent
C. breviflorus A. Gray (Wright mountain mahogany).	N. Mex.	Top stem	1	0		
C. eximius (Schneid.) Rydb. See *C. breviflorus* A. Gray.						
C. montanus Nutt. (true mountain mahogany).	N. Mex.	Top stem	1	0		
Cestrum (cestrum; jessamine), SOLANACEAE.						
C. diurnum L. (day cestrum)--------------	Fla.	Leaves	1	.20		
	Fla.	Stems	1	.04		
C. nocturnum L. (nightblooming cestrum).	Fla.	Leaves[6]	1	.38		
	Fla.	Stems	1	.08		
Chaenobolus undulatus. See *Pterocaulon pycnostachyum*.						
Chaetochloa. See *Setaria*.						
Chalcas. See *Murraya*.						
Chamaecrista (partridgepea), LEGUMINOSAE.						
C. aspera (Muhl.) Greene------------------	Fla.	Whole	2	0	0	0
C. brachiata Pollard--------------------	Fla.	Leaves	1	0		
	Fla.	Whole	2	0	0	0
C. deeringiana Small & Pennell-----------	Fla.	Leaves	1	.29		
	Fla.	Stems	1	0		
	Fla.	Whole	2	0	0	0
C. fasciculata (Michx.) Greene (showy partridgepea).	Ala., Fla., S.C.	Leaves	6	0	.18	.03
	Fla.	Stems	1	0		
	Okla., Va.	Whole	2	0	0	0
C. nictitans. See *C. procumbens*.						
C. procumbens (L.) Greene (sensitive partridgepea).	Fla.	Leaves	1	0		
	N.J., N.C.	Whole	4	0	.12	.06
Chamaecrista sp.--------------------------	Kans., Nebr., U.P.	Whole	10	0	0	0
Chamaecyparis (falsecypress), CUPRESSACEAE.						
C. lawsoniana (A. Murr.) Parl. (Lawson falsecypress).	Fla.	Leaves	1	0		
C. pisifera Sieb. & Zucc. (Sawara falsecypress).	N.J.	Whole	1	.03		
C. pisifera Sieb. & Zucc. *var*.------------	N.J.	Whole	1	.05		
C. thyoides (L.) BSP (whitecedar falsecypress).	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
Chamaecyparis sp.-------------------------	Fla.	Whole	1	.30		
Chamaenerion. See Epilobium.						
Chapmannia (alicia), LEGUMINOSAE.						
C. floridana Torr. & Gray Florida alicia).	Fla.	Leaves	1	0		

TABLE 1.--Continued

Part[1]	Collected in [2, 3]	Laboratory tests for rubber				
		Part tested [4, 5]	Tests	Low	High	Mean
Chamaesyce. See Euphorbia.						
Chaptalia, COMPOSITAE.			Number	Percent	Percent	Percent
C. tomentosa Vent.------------------------	Fla.	Whole	3	.41	1.99	.98
Cheilanthes (lipfern), POLYPODIACEAE.						
C. myriophylla Desv.---------------------	N. Mex.	Whole	1	0		
C. tomentosa Link (woolly lipfern)-------	S.C.	Whole	1	0		
Chelidonium (celandine), PAPAVERACEAE.						
C. majus L. (greater celandine)----------	N.J.	Leaves	2	0	Tr	Tr
	N.J.	Whole	1	.42		
Chelone (turtlehead), SCROPHULARIACEAE.						
C. glabra L. (white turtlehead)----------	N.J., N.C., W.Va.	Leaves	4	0	0	0
	N.J.	Whole	1	.18		
Chelone sp.------------------------------	N.J.	Leaves	1	0		
Chenopodium (goosefoot), CHENOPODIACEAE.						
C. alba L. (lambsquarters goosefoot).	Fla., Ga., N.J., S.C., Va.	Leaves	11	0	.13	.01
	Fla.	Stems	1	0		
	Colo., Idaho, Kans., Mont., Nebr., N.J., Oreg., U.P.	Whole	13	0	.09	.01
	N.J.	?	1	0		
C. ambrosioides L. (wormseed goosefoot).	Fla., Ga., N.C., S.C.	Leaves	14	0	2.30	.18
	Fla.	Stems	2	0	.45	.22
	Fla., S.C.	Whole	4	0	.04	.01
	Fla., N.J.	?	4	0	0	0
C. botrys L. (Jerusalemoak goosefoot)----	N.J., Oreg.	Whole	2	0	0	0
C. hybridum L. (mapleleaf goosefoot)-----	N.J.	Leaves	2	0	0	0
C. lanceolatum Muhl.---------------------	Ga.	Leaves	1	0		
Chenopodium sp.--------------------------	Fla.	Leaves	2	0	0	0
	Calif., Colo., Idaho, Kans., Nebr., U.P., Utah, Wash., Wyo.	Whole	99	0	.20	Tr
Chilopsis (desertwillow), BIGNONIACEAE.						
C. linearis (Cav.) Sweet (desertwillow).	Fla.	Leaves	1	0		
	U.P.	Whole	1	0		
Chimaphila (pipsissewa), PYROLACEAE.						
C. maculata (L.) Pursh (striped pipsissewa).	N.J., Va., W.Va.	Whole	3	0	0	0
C. umbellata cisatlantica Blake----------	N.J.	Whole	1	0		
Chiococca (milkberry), RUBIACEAE.						
C. alba (L.) Hitchc. (Davids milkberry).	Fla.	Leaves	11	Tr	5.71	1.89
	Fla.	Stems	9	0	.52	.12
	Fla.	?	5	1.71	5.06	3.31
C. racemosa. See C. alba.----------------						

TABLE 1.--Continued

Plant[1]	Collected in [2,3]	Laboratory tests for rubber				
		Part tested [4,5]	Tests	Low	High	Mean
Chionanthus (fringetree), OLEACEAE.			Number	Percent	Percent	Percent
C. virginicus L. (white fringetree).	Fla., Ga., N.C., S.C.	Leaves	8	0	0	0
Chlaenobolus. See Pterocaulon.						
Chloris (chloris; windmillgrass), GRAMINEAE.						
C. glauca (Chapm.) Vasey (saltmarsh chloris).	Fla.	Whole	1	0		
Chondrilla (skeletonweed), COMPOSITAE.						
C. juncea L. (rush skeletonweed)---------	Va.	No test				
Chondrophora, COMPOSITAE.						
C. nudata (Michx.) Britt.	Fla.	Leaves	1	2.28		
	Fla., N.C., S.C.	Whole	3	.62	1.17	.82
Chrysalidocarpus (butterflypalm), PALMACEAE.						
Chondrophora sp. ?-----------------------	Fla.	Leaves	1	.34		
Chrysanthemum (chrysanthemum), COMPOSITAE.						
C. leucanthemum L. (oxeyedaisy)----------	Fla., N.J.	Whole	3	.14	.72	.35
	N.J.	?	1	2.11		
C. leucanthemum pinnatifidum Lecoq. & Lamotte (field oxeyedaisy).	N.J.	?	3	0	2.42	.81
C. majus (Desf.) Aschers. (costmary chrysanthemum).	U.P., Wash.	Whole	2	.20	.22	.21
C. morifolium Ram. (florists chrysanthemum).	N.J.	Whole	1	.20		
C. parthenium (L.) Pers. (feverfew chrysanthemum).	N.J.	Whole	1	.07		
Chrysanthemum sp.------------------------	Fla.	Leaves	1	.60		
	Wash.	Whole	1	.34		
Chrysobalanus (cocoplum), ROSACEAE.						
C. icaco L. (Icaco cocoplum)------------	Fla.	Leaves	8	0	.24	.03
	Fla.	Stems	6	0	0	0
	Fla.	?	1	0		
C. oblongifolius Michx.------------------	Fla.	Leaves	2	0	.08	.04
	Fla.	Stems	1	0		
	Fla.	Bark	1	0		
	Fla.	?	2	0	0	0
Chrysobalanus sp.------------------------	Fla.	No test				
Chrysogonum (goldenstar), COMPOSITAE.						
C. virginianum L. (goldenstar)-----------	Ga.	Leaves	1	0		
	N.C.	Whole	1	0		
Chrysoma, COMPOSITAE.						
C. pauciflosculosa (Michx.) Greene.	Fla.	Leaves	1	.63		

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Chrysophyllum (starapple), SAPOTACEAE.			Number	Percent	Percent	Percent
C. diviforme L.	Fla.	Leaves	1	3.88		
	Fla.	Stems	1	.06		
C. oliviforme L. (satinleaf starapple).	Fla.	Leaves	3	1.51	2.07	1.85
	Fla.	Stems	1	.11		
	Fla.	?	2	Tr	1.14	.57
Chrysopsis (goldaster), COMPOSITAE.						
C. aspera Shuttlw.	N.C., S.C.	Whole	2	.23	.53	.38
C. berlandieri Greene (Berlandier goldaster).	Tex.	Whole	2	.90	1.00	.95
C. floridana Small (Florida goldaster).	Fla.	Stems	1	.37		
C. foliosa Nutt. ? (leafy goldaster)	U.P.	Whole	1	Tr		
C. gossypina (Michx.) Ell. (cottony goldaster).	Fla.	Leaves	2	.03	1.73	.88
C. graminifolia (Michx.) Ell. (grassleaf goldaster).	Fla., S.C.	Leaves	2	.17	.27	.22
	Fla., Ga., N.C., S.C., Va.	Whole	22	0	1.07	.29
C. horrida Rydb.	U.P.	Whole	1	.77		
C. mariana (L.) Nutt. (Maryland goldaster).	Fla., Ga., N.C., Va.	Leaves	7	.45	4.56	1.63
	N.J., N.C., S.C.	Whole	4	.30	1.13	.84
	N.J.	?	1	Tr		
C. trichophylla Nutt.	Fla.	Leaves	5	.83	1.52	1.29
Chrysopsis sp.	Fla., Ga., S.C.	Leaves	12	0	1.37	.32
	Fla., N. Mex., U.P.	Whole	9	0	.91	.10
	Fla.	?	4	0	.43	.11
Chrysothamnus (rabbitbrush), COMPOSITAE.						
C. baileyi Woot. & Standl.	Tex.	Whole	1	0		
C. nauseosus graveolens (Nutt.) Piper (greenplume rabbitbrush).	N. Mex.	Whole	1	.17		
C. nauseosus pinifolius (Greene) Hall & Clements (pineneedle rabbitbrush).	?	Whole	1	.12		
C. nauseosus speciosus (Nutt.) Hall & Clements (tall rabbitbrush).	Oreg., Utah	Whole	2	.08	.11	.10
C. nauseosus var.	Wyo.	Whole	1	.21		
C. patens Rydb.	N. Mex.	Whole	1	0		
C. viscidiflorous (Hook.) Nutt. var. (Douglas rabbitbrush).	U.P., Utah	Whole	2	0	0	0
Chrysothamnus sp.	Nebr.	Leaves	1	.10		
	Nebr.	New stems	1	1.82		
	Nebr.	Old stems	1	3.27		
	Nebr.	Roots	1	4.13		
	Colo., Idaho, Nev., Oreg., U.P., Utah, Wash.	Whole	27	0	1.30	.31

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
			Number	Percent	Percent	Percent
Chylisma. See Oenothera.						
Cicca. See Phyllanthus.						
Cichorium (chicory), COMPOSITAE.						
C. intybus L. (common chicory)	Ga., N.J., N.C.	Leaves	5	0	Tr	Tr
	N.J., Va.	Whole	6	0	.14	.08
Cicuta (waterhemlock), UMBELLIFERAE.						
C. curtissii Coult. & Rose (Curtiss waterhemlock).	Fla.	Leaves	3	0	0	0
	Fla.	Stems	1	0		
	Fla.	Whole	7	0	.09	.02
C. maculata L. (spotted waterhemlock.	N.J., N.C.	Leaves	2	0	0	0
	Nebr., N.J., Va.	Whole	3	0	0	0
Cicuta sp.	Ga., S.C.	Leaves	2	0	0	0
	Nebr., U.P.	Whole	8	0	0	0
	Fla.	?	2	0	0	0
Cimicifuga (bugbane), RANUNCULACEAE.						
C. racemosa (L.) Nutt. (Cohosh bugbane.	N.J., N.C.	Leaves	2	0	0	0
	N.J., Va., W. Va.	Whole	3	0	.08	.03
Cinnamomum (cinnamon), LAURACEAE.						
C. camphora (L.) Nees & Eberm. (camphortree).	Fla., Miss.	Leaves	3	0	.31	.10
	Fla.	Stems	1	.63		
Cinnamomum sp.	Fla.	Leaves	1	.18		
	Fla.	Stems	1	.05		
Circaea (circaea), ONAGRACEAE.						
C. latifolia Hill (broadleaf circaea).	N.J.	Leaves	1	0		
C. lutetiana L. (Paris circaea)	N.J.	Leaves	1	Tr		
	W. Va.	Whole	1	0		
Cirsium (thistle), COMPOSITAE.						
C. altissimum (L.) Spreng. (tall thistle).	Ga., S.C.	Leaves	2	.15	.41	.28
	N.J., U.P.	Whole	2	.12	.22	.17
C. arvense (L.) Scop. (Canada thistle).	N.J.	Leaves	1	Tr		
	Ga., N.J., U.P., Wash.	Whole	4	0	.13	.06
C. arvense integrifolium Wimm. & Grab.	N.J.	Leaves	3	Tr	Tr	Tr
C. canescens Nutt.	Colo.	Whole	1	.08		
C. discolor (Muhl.) Spreng. (field thistle).	Ga., Va.	Leaves	2	0	.15	.08
	Kans., N.J., N.C., Va., W. Va.	Whole	10	0	.17	.08
C. discolor?	Kans.	Whole	1	.23		
C. horridulum Michx.	Fla.	Whole	4	0	.38	.11
	Fla.	?	2	0	0	0
C. lanceolatum (L.) Hill (bull thistle).	N.J.	Leaves	1	Tr		
	N.J., Oreg., U.P., Utah, Wash.	Whole	13	0	.21	.05
C. lanceolatum (L.) Hill ?	N.J.	Whole	1	0		

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Cirsium (thistle), COMPOSITAE--Continued			Number	Percent	Percent	Percent
C. muticum Michx. (swamp thistle)	N.J.	Whole	1	.13		
C. nuttali (DC.) A. Gray	Fla.	Whole	1	.05		
C. ochracentrum A. Gray	Kans., Nebr.	Whole	3	0	.15	.09
C. pinetorum Small	Fla.	Whole	2	.11	.37	.24
C. pumilum (nutt.) Spreng. (fragrant thistle).	N.J.	Whole	2	.21	.22	.22
C. repandum Michx.	S.C.	Leaves	1	.14		
C. revolutum Small	S.C.	Leaves	1	0		
C. smallii Britt. ?	Fla.	Leaves	1	0		
	Fla.	Whole	1	.18		
C. tracyi Rydb.	Nebr.	Whole	1	.25		
C. undulatum Nutt. (wavyleaf thistle).	Colo., Kans., Nebr., U.P., Utah	Whole	6	0	.20	.06
C. virginianum (L.) Michx.	S.C.	Leaves	1	.14		
Cirsium sp.	Fla.	Leaves	2	0	0	0
	Fla., Ga., Kans., Nebr., N.J., N.C., U.P., Utah., Wash.	Whole	26	0	.35	.08
Cissus (treebine), VITACEAE						
C. sicyoides L. (waterwythe treebine).	Fla.	Leaves	3	0	.05	.02
	Fla.	Stems	2	0	.07	.04
	Fla.	Whole	4	0	0	0
	Fla.	?	1	Tr		
Cissus sp.	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
Citharexylum (fiddlewood), VERBENACEAE.						
C. fruticosum L. (Florida fiddlewood.	Fla.	Leaves	2	0	.45	.22
	Fla.	Stems	2	0	0	0
Citharexylum sp.	Fla.	Leaves	1	Tr		
Citrullus (citrullus), CUCURBITACEAE.						
C. lanatus (Thunb.) Mansf. (watermelon).	Fla.	Whole	3	0	.04	.02
Citrus (citrus), RUTACEAE.						
C. auranticum L. (sour orange)	Fla.	Leaves	2	.09	.19	.14
	Fla.	Stems	2	.10	.11	.10
C. grandis (L.) Osbeck (pummelo)	Fla.	Leaves	2	0	.30	.15
	Fla.	Stems	2	0	.14	.07
C. limon (L.) Burm. f. (lemon)	Fla.	Leaves	1	.21		
	Fla.	Stems	1	.11		
C. limonum Risso	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Cladonia (lichen), CLADONIACEAE.			Number	Percent	Percent	Percent
Cladonia spp.	Alaska	Whole	1	0		
Clematis (clematis), RANUNCULACEAE.						
C. baldwinii Torr. & Gray (Baldwin clematis).	Fla.	Whole	3	0	.03	.01
C. ligusticifolia Nutt. (western virginsbower).	Colo.	Whole	1	.05		
C. paniculata Thunb. (sweet-autumn clematis).	N.C., Tenn.	Leaves	2	0	0	0
	S.C.	Whole	1	0		
C. reticulata Walt. (netleaf clematis)	Fla.	Leaves	1	0		
C. viorna L. (leatherflower clematis)	Fla.	Whole	1	0		
C. virginiana L. (virginsbower)	Fla., N.J.	Leaves	2	0	0	0
	Fla., N.J., N.C.	Whole	6	0	.11	.05
Clematis sp.	U.P.	Leaves	1	0		
	Calif., N.J., Oreg., U.P., Utah, Wash.	Whole	10	0	.11	.01
	Fla.	?	2	0	0	0
Cleome (spiderflower), CAPPARIDACEAE.						
C. gynandra L.	Ala., Ga.	Leaves	2	0	0	0
C. lutea Hook. (yellow spiderflower)	U.P.	Whole	2	0	0	0
C. serrulata Pursh (bee spiderflower).	U.P.	Leaves	1	0		
	Idaho, Kans., Nebr., U.P., Wyo.	Whole	15	0	.24	.02
C. spinosa (L.) Jacq. (spiny spiderflower).	No information.					
Cleome sp.	Colo., Idaho, Nebr., Oreg., U.P., Utah, Wyo.	Whole	22	0	.05	Tr
Clerodendron (glorybower), VERBENACEAE.						
C. bungei Steud. (rose glorybower)	Fla.	Leaves	1	.97		
C. fallax. See *C. speciosissimum*						
C. foetidum. See *C. bungei*						
C. fragrans Vent. (fragrant glorybower).	Fla.	Leaves	1	.20		
C. infortunatum L. ?	Fla.	Leaves	1	0		
C. speciosissimum Paxt. (Java glorybower).	Fla.	Whole	1	.12		
C. speciosum Hort. ?	Fla.	Leaves	1	.50		
C. thompsonae Balf. (bleeding-heart glorybower).	Fla.	Leaves	1	.11		
C. trichotomum Thunb. (harlequin glorybower).	Ga.	Leaves	1	.68		
Clerodendron sp.	Fla.	Leaves	2	.20	.99	.60
	Fla.	Stems	1	.11		
	Fla.	?	1	Tr		

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Clethra (clethra), CLETHRACEAE.			Number	Percent	Percent	Percent
C. alnifolia L. (summersweet clethra)----	Fla., N.J., N.C., S.C., Va.	Leaves	9	0	0	0
	N.J.	Whole	2	.05	.11	.08
C. tomentosa Michx. (woolly clethra)-----	Fla., S.C.	Leaves	3	0	0	0
	Fla.	Stems	1	0		
Cliftonia (buckwheattree), CYRILLACEAE.						
C. *monophylla* (Lam.) Britt. (buckwheattree).	Fla.	Leaves	2	0	.14	.07
	Fla.	Stems	1	.11		
Clinopodium, LABIATAE.						
C. coccineum (Nutt.) Kuntze--------------	Fla.	Leaves	1	.98		
C. georgianum Harper---------------------	Ga.	Leaves	1	.87		
C. nepeta. See *Satureia nepeta*						
C. *vulgare*. See *Satureia vulgaris*						
Clintonia (beadlily), LILIACEAE.						
C. umbellulata Torr. (speckled beadlily)-	N.C.	Leaves	1	.43		
Clitoria (pigeonwings), LEGUMINOSAE.						
C. fragrans Small------------------------	Fla.	Leaves	3	0	0	0
Cnidoscolus (treadsoftly), EUPHORBIACEAE.						
C. stimulosus (Michx.) Engelm. & Gray (risky treadsoftly).	Fla.	Whole	2	0	.02	.01
C. texanus (Muell. Arg.) Small (Texas treadsoftly).	Okla.	Bark	1	.23		
Coccolobis (seagrape), POLYGONIACEAE.						
C. floridana Meissn. (pigeon seagrape)---	Fla.	Leaves	12	0	.25	.02
	Fla.	Stems	8	0	0	0
C. laurifolia. See *C. floridana*----------						
C. uvifera L. (common seagrape)----------	Fla.	Leaves	4	0	.31	.10
	Fla.	Stems	3	0	.13	.04
	Fla.	?	2	0	0	0
Cocculus (snailseed), MENISPERMACEAE.						
C. carolinus (L.) DC. (Carolina snailseed).	Ga.	Leaves	1	0		
Cochranea. See *Heliotropium*.						
Cochranea anchusaefolia. See *Heliotropium amplexicaule*						
Codiaeum (leafcroton), EUPHORBIACEAE.						
C. variegatum (L.) Blume (variegated leafcroton).	Fla.	Leaves	5	.27	1.18	.47
	Fla.	Stems	5	.07	.17	.12

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Coldenia (coldenia), BORAGINACEAE.			Number	Percent	Percent	Percent
Coldenia sp.	N. Mex., Tex.	Whole	2	0	0	0
Coleosanthus. See Brickellia						
Coleus (coleus), LABIATAE.						
Coleus sp.	Ga.	Leaves	1	.12		
Collinsonia (horsebalm), LABIATAE.						
C. candensis L. (citronella horsebalm)	N.J., N.C.	Leaves	8	0	1.16	.18
	N.C., W. Va.	Whole	2	0	.57	
	N.J.	?	2	Tr	Tr	Tr
Colocasia (elephantsear), ARACEAE.						
C. antiquorum (L.) Schott (taro)	Fla.	Leaves	1	0		
Colocasia sp.	Fla.	Whole	1	.03		
Colubrina (colubrina), RHAMNACEAE.						
C. americana Nutt.	Fla.	Leaves	2	0	0	0
	Fla.	Stems	1	0		
C. cubensis (Jacq.) Brongn. (Cuba colubrina).	Fla.	Leaves	1	.13		
Comandra (comandra), SANTALACEAE.						
C. umbellata (L.) Nutt.	N.J.	Leaves	1	Tr		
	N.J.	Whole	1	Tr		
Commelina (dayflower), COMMELINACEAE.						
C. angustifolia Michx. (narrowleaf dayflower).	Fla.	Whole	7	0	.36	.06
C. communis L. (common dayflower)	N.J., Va.	Whole	3	0	.09	.03
C. hirtella Vahl. (hairy dayflower)	Fla., Ga., N.C.	Leaves	3	0	.18	.06
	Fla.	Stems	1	0		
	Fla., S.C.	Whole	2	0	0	0
C. nudiflora L. (creeping dayflower)	Fla.	Whole	3	0	.51	.17
Commelina sp.	Fla.	?	2	0	0	0
Comptonia (sweetfern), MYRICACEAE.						
C. peregrina (L.) Coult. (sweetfern)	N.J., Va.	Leaves	4	0	Tr	Tr
	N.J.	Whole	1	Tr		
Condalia (condalia), RHAMNACEAE.						
Condalia sp.	Tex.	Whole	1	0		
Conocarpus (buttonmangrove), TERMINALIACEAE.						
C. erecta L. (buttonmangrove)	Fla.	Leaves	15	.45	2.55	1.35
	Fla.	Stems	10	0	.25	.02
	Fla.	?	1	.85		

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Conradina (conradina), LABIATAE.			Number	Percent	Percent	Percent
C. *canescens* (Torr. & Gray) A. Gray (bluesage conradina).	Fla.	Leaves	1	.10		
C. *grandiflora* Small	Fla.	Leaves	2	1.05	3.43	2.24
	Fla.	Stems	1	.15		
	Fla.	Whole	1	.32		
Convallaria (lilyofthevalley), LILIACEAE.						
C. *majalis* L. (lilyofthevalley)	Tenn.	Leaves	1	0		
Convolvulus (glorybind[1], CONVOLVULACEAE.						
C. *arvensis* L. (European glorybind)	N.J.	Leaves	1	0		
	Kans., Idaho, Nebr, U.P., Utah	Whole	12	0	0	0
C. *repens* L.	Fla.	Whole	1	.02		
C. *sepium* L (hedge glorybind)	N.J.	Leaves	1	0		
C. *spithamaeus* L.	No information					
Convolvulus sp.	Kans., Nebr., N.J., U.P.	Whole	6	0	.17	.03
Cordia (cordia), BORAGINACEAE.						
C. *bullata* L.	No information					
C. *sebestena* L. (geigertree cordia)	Fla.	Leaves	2	1.85	3.70	2.75
	Fla.	Stems	2	0	0	0
Cordylanthus (birdbeak), SCROPHULARIACEAE.						
Cordylanthus sp.	U.P.	Whole	1	0		
Cordyline (dracena), LILIACEAE.						
Cordyline sp.	Fla.	Leaves	1	.13		
	Fla.	Stems	1	.03		
Coreopsis (coreopsis), COMPOSITAE.						
C. drummondii (D. Don) Torr. & Gray (goldenwave coreopsis).	Ga.	Whole	1	0		
C. *grandiflora* Hogg (bigflower coreopsis)	N.J.	Whole	1	.20		
C. *lanceolata* L. (lance coreopsis)	Fla., N.J.	Leaves	4	0	0	0
C. *leavenworthii* Torr. & Gray (Leavenworth coreopsis).	Fla.	Whole	3	0	.07	.02
	Fla.	?	1	0		
C. *major* Walt. (trefoil coreopsis)	S.C.	Leaves	1	0		
C. *major* *rigida* (Nutt.) Boynton	Ga.	Leaves	1	0		
C. *major* *stellata* (Nutt.) Robinson	Ga., N.C.	Leaves	4	0	.12	.03
	N.C., S.C., Va.	Whole	3	0	0	0
C. *tripteris* L. (Atlantic coreopsis)	Ga.	Leaves	1	0		
C. *verticillata* L. (threadleaf coreopsis)	Ga.	Leaves	1	0		
Coreopsis sp.	Fla.	Leaves	1	0		
	Nebr., N.C., U.P.	Whole	3	0	0	0
	Fla.	?	2	0	0	0

TABLE 1.--Continued

Plant[1]	Collected in [2,3]	Laboratory tests for rubber				
		Part tested [4,5]	Tests	Low	High	Mean
			Number	Percent	Percent	Percent
Cornus (dogwood), CORNACEAE.						
C. amomum Mill. (silky dogwood)----------	Ga., Tenn.	Leaves	2	0	0	0
C. asperifolia Michx. (roughleaf dogwood).	N.J.	Leaves	2	Tr	Tr	Tr
	N.J.	Whole	2	.02	.09	.06
C. candidissima. See *C. asperifolia*.						
C. circinata. See *C. rugosa*.						
C. florida L. (flowering dogwood)--------	Fla., Ga., La., N.J., N.C., S.C., W.Va.	Leaves	23	0	Tr	Tr
	La.	Whole	1	0		
C. foemina Mill. (stiffcornel dogwood).	Fla., Ga.	Leaves	10	0	0	0
	Fla.	Stems	2	0	Tr	Tr
	N.J.	Whole	1	.01		
C. paniculata. See *C. racemosa*.						
C. racemosa Lam. (Gray dogwood)----------	N.J.	Leaves	3	0	Tr	Tr
C. rugosa Lam. (roundleaf dogwood)-------	N.J.	Leaves	1	0		
C. stolonifera Michx.--------------------	N.J.	Leaves	1	Tr		
C. stricta. See C. foemina.						
Cornus sp.------------------------------	Fla., Kans., N.J., N.C., S.C., U.P., W.Va.	Leaves	22	0	.17	Tr
	Fla.	Stems	2	0	.07	.04
	Fla., Kans., Idaho, Oreg., Utah, Wash.	Whole	9	0	0	0
	Fla.	?	2	0	0	0
Corydalis (corydalis), FUMARIACEAE.						
C. sempervirens (L.) Pers. (pale corydalis).	N.J.	Whole	1	0		
Corylus (filbert; hazel), BETULACEAE.						
C. americana Walt. (American filbert).	N.J., W.Va.	Leaves	4	0	0	0
	N.J.	Whole	1	.02		
Corylus sp.------------------------------	S.C.	Leaves	1	0		
Coryphantha (coryphantha), CACTACEAE.						
Coryphantha sp.--------------------------	U.P.	Whole	1	0		
Cosmos (cosmos), COMPOSITAE.						
C. bipinnatus Cav. (common cosmos)-------	Fla., N.J.	Leaves	3	0	0	0
C. sulphureus Cav. (yellow cosmos)-------	Fla.	Leaves	1	0		
Cosmos sp.------------------------------	S.C.	Whole	1	0		
Cotinus (smoketree), ANACARDIACEAE.						
C. americanus Nutt. (American smoketree).	N.C.	Leaves	1	.44		
Cotoneaster (cotoneaster), ROSACEAE.						
C. horizontalis Dcne. (rock cotoneaster).	Ga.	Leaves	1	0		
Covillea. See *Larrea*.						

TABLE 1.--Continued

Plant[1]	Collected in [2,3]	Laboratory tests for rubber				
		Part tested [4,5]	Tests	Low	High	Mean
Cracca. See Tephrosia.						
Crataegus (hawthorn), ROSACEAE.			Number	Percent	Percent	Percent
C. aestivalis (Walt. Torr. & Gray (May hawthorn).	Ga.	Leaves	1	0		
C. crus-galli L. (cockspur hawthorn)-----	S.C., Va.	Leaves	3	0	0	0
C. flava Ait. (yellow hawthorn)----------	Fla., S.C.	Leaves	2	0	0	0
C. marshallii Eggl. (parsley hawthorn)---	Fla.	No information				
C. spathulata Michx. (littleship hawthorn).	Ga.	Leaves	1	0		
C. uniflora Moench. (oneflower hawthorn).	Fla., Ga., N.J.	Leaves	4	0	0	0
Crataegus sp.----------------------------	Fla., Ga., N.J., N.C., S.C., Va., W.Va.	Leaves	15	0	Tr	Tr
	Ga., N.C.	Whole	2	0	0	0
	Fla., N.J.	?	2	0	Tr	Tr
Crepis (hawksbeard), COMPOSITAE.						
C. capillaris (L.) Wallr. (smooth hawksbeard).	W.Va.	No test				
Crepis sp.-------------------------------	U.P.	Whole	1	0		
Crescentia (calabashtree), BIGNONIACEAE.						
C. cunjete L. (common calabashtree)------	Fla.	Leaves	1	.32		
	Fla.	Stems	1	0		
Crinum (crinum), AMARYLLIDACEAE.						
C. americanus L. (Florida crinum)--------	Fla.	Whole	3	0	.22	.07
Crinum sp.-------------------------------	Fla.	Whole	3	0	0	0
Crocanthemum (frostwort), CISTACEAE.						
C. canadense (L.) Britt. (Canada frostwort).	N.J.	Leaves	2	0	0	0
Crotalaria (crotalaria), LEGUMINOSAE.						
C. incana L. (shackahack crotalaria).	Fla.	Leaves	2	0	.02	.01
	Fla.	Stems	2	0	0	0
C. maritima Chapm. (coastplain crotalaria).	Fla.	Whole	2	0	.02	.01
C. pumila Ort. (low crotalaria)----------	Fla.	Whole	1	0		
C. purshii DC. (Pursh crotalaria)--------	Fla.	Whole	2	0	.03	.02
C. retusa L.-----------------------------	Fla.	Leaves	2	0	0	0
C. sagittalis L. (arrow crotalaria).	N.J.	Leaves	1	0		
	Fla., N.J.	Whole	3	0	.02	.01
C. saltiana Andr.------------------------	Fla.	Leaves	2	0	.41	.20
	Fla.	Stems	1	.18		
	Fla.	Whole	1	.02		
Crotalaria sp.---------------------------	Fla.	Leaves	2	0	0	0
	Fla.	Whole	2	0	0	0
	Fla.	?	3	0	0	0

TABLE 1.--Continued

Plant[1]	Collected in [2,3]	Laboratory tests for rubber				
		Part tested [4,5]	Tests	Low	High	Mean
Croton (croton), EUPHORBIACEAE.			Number	Percent	Percent	Percent
C. argyranthemus Michx.	Fla.	Leaves	3	0	0	0
C. capitatus Michx. (woolly croton).	Ala.	Leaves	1	0		
	Okla.	Whole	1	.06		
C. corymbulosus Englm. (leatherweed croton).	Okla.	No test				
C. engelmannii Ferguson	Fla.	Leaves	1	0		
C. fergusonii Small	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
C. floridanus Ferguson	Fla.	Whole	2	.03	.26	.14
C. glandulosus L.	Ala., Fla., N.C.	Leaves	6	0	0	0
	Fla.	Stems	2	0	0	0
	Fla., N.C., Va.	Whole	7	0	.09	.01
	Fla.	?	2	0	0	0
C. monanthogynus Michx.	Ala.	Leaves	1	0		
	Okla.	Whole	1	.03		
C. punctatus Jacq.	Fla.	Leaves	8	0	1.02	.13
	Fla.	Stems	2	0	.11	.06
	S.C.	Whole	1	.05		
C. texensis (Kl.) Muell. Arg. (Texas croton).	Tex., U.P.	Whole	2	0	.39	.20
Croton sp.	Fla., Tex.	Leaves	4	0	0	0
	Fla.	Stems	1	0		
	Fla.	Bark	1	0		
	Calif., Colo., Fla., Kans., Miss., Nebr., Okla., Tex., U.P.	Whole	27	0	.11	Tr
Crotonopsis, EUPHORBIACEAE.						
C. linearis Michx.	Fla.	Whole	1	0		
Crotonopsis sp.	Fla.	No test				
Cryptantha (cryptantha), BORAGINACEAE.						
Cryptantha sp.	Tex., U.P.	Whole	2	0	0	
Cryptostegia (rubbervine), ASCLEPIADACEAE.						
Cryptostegia sp.	Ariz.	Leaves and fruit	1	1.21		
	Ariz.	Stems	1	.47		
Cryptotaenia, UMBELLIFERAE.						
C. canadensis (L.) DC.	N.J., N.C.	Leaves	2	0	0	0
Cucurbita, CUCURBITACEAE.						
C. foetidissima HBK (buffalogourd).	Colo.	Leaves	1	0		
C. pepo L. (pumpkin)	Fla.	Leaves	1	0		
Cucurbita sp.	Fla., Kans., U.P.	Whole	4	0	0	0

TABLE 1.--Continued

Plant[1]	Collected in [2,3]	Laboratory tests for rubber				
		Part tested [4,5]	Tests	Low	High	Mean
Cunila (stonemint), LABIATAE.			Number	Percent	Percent	Percent
C. origanoides (L.) Britt. (Maryland stonemint).	N.J., S.C., Va.,	Leaves	3	Tr	1.00	.53
	N.C., Va.	Whole	2	0	0	0
	N.J.	?	1	Tr		
Cuphea (cuphea), LYTHRACEAE.						
C. petiolata (L.) Koehne (clammy cuphea).	Fla., N.C., Tenn., Va.	Leaves	4	0	.26	.12
	N.C., Va., W.Va.	Whole	3	.16	.47	.33
Cuphea sp.	Fla.	Leaves	1	Tr		
Cuscuta (dodder), CUSCUTACEAE.						
Cuscuta sp.	N.C.	Leaves	1	0		
Cuthbertia, COMMELINACEAE.						
C. ornata Small	Fla.	Whole	1	0		
Cyclachaena See Iva.						
Cycloloma (ringwing), CHENOPODIACEAE.						
C. atriplicifolium (Spreng.) Coult. (tumble ringwing).	Colo., Nebr., U.P.	Whole	4	0	.21	.05
Cydonia (quince), ROSACEAE.						
C. oblonga Mill. (common quince)	N.J.	Whole	1	.02		
Cynoctonum, LOGANIACEAE.						
C. mitreola (L.) Britt.	Fla.	Whole	3	0	.95	.35
C. sessilifolium (Walt.) Gmel.	Fla.	Whole	1	.55		
Cynoctonum sp.	Fla.	Leaves	1	Tr		
Cynoglossum (houndstongue), BORAGINACEAE.						
C. virginicum L. (wildcomfrey houndstongue).	Ga., N.C.	Leaves	2	0	0	0
Cynoglossum sp.	Idaho	Whole	1	0		
Cyperus (flat sedge), CYPERACEAE.						
C. lecontei Torr.	Fla.	Whole	2	0	0	0
C. pseudovegetus Staud.	Fla.	Whole	1	0		
C. strigosus L.	Nebr., Va.	Whole	2	0	0	0
Cyperus sp.	Fla.	Whole	1	0		
	Fla.	?	1	Tr		
Cypripedium (ladyslipper), ORCHIDACEAE.						
C. acaule Ait. (pink ladyslipper)	N.J., W.Va.	Whole	3	0	0	0
Cyrilla (cyrilla), CYRILLACEAE.						
C. parvifolia Raf.	Fla.	Leaves	2	0	0	0
	Fla.	Stems	1	0		
C. racemiflora L. (American cyrilla).	Fla., N.C.	Leaves	4	0	0	0
	Fla.	Stems	1	0		
Cytisus (broom), LEGUMINOSAE.						
C. scoparius (L.) Link (Scotchbroom).	Ga.	Leaves	1	0		

TABLE 1.--Continued

Plant[1]	Collected in [2,3]	Laboratory tests for rubber				
		Part tested [4,5]	Tests	Low	High	Mean
Dahlia (dahlia), COMPOSITAE.			Number	Percent	Percent	Percent
D. variabilis Desf. (a group of garden hybrids).	N.J.	Whole	1	.07		
Dahlia sp.-------------------------------	Ga.	Leaves	1	.35		
Dalbergia (rosewood), LEGUMINOSAE.						
D. brownei Jacq.-------------------------	Fla.	Leaves	13	0	.47	.15
	Fla.	Stems	8	0	.05	Tr
	Fla.	?	2	0	0	0
Dalbergia sp.----------------------------	Fla.	?	1	0		
Dalea (dalea), LEGUMINOSAE.						
D. floridana ? = Parosela floridana Rydb.	Fla.	Leaves	1	.01		
D. pogonanthera A. Gray (bearded dalea)--	U.P.	Whole	1	.64		
Dalea sp.--------------------------------	Kans., Nebr., Tex., U.P.	Whole	7	0	.21	.03
Datura (datura), SOLANACEAE.						
D. arborea L. ? (floripondio datura).	Fla.	Leaves	1	.23		
	Fla.	Stems	1	.09		
D. stramonium L. (jimsonweed datura)-----	N.J., Va.	Leaves	3	0	.68	.23
Datura sp.-------------------------------	Kans., Nebr., U.P.	Whole	5	0	0	0
Daubentonia (rattlebox), LEGUMINOSAE.						
D. punicea (Cav.) DC.--------------------	Fla.	Leaves	1	0		
	Fla.	Seeds	1	0		
Daucus (carrot), UMBELLIFERAE.						
D. carota L. (wild carrot)---------------	N.J., N.C.	Leaves	2	0	0	0
	Kans., N.J., Utah	Whole	4	0	.11	.03
Decodon (waterwillow), LYTHRACEAE.						
D. verticillatus (L.) Ell. (waterwillow)-	Ala., Fla., N.J.	Leaves	5	0	Tr	Tr
Decumaria (decumaria), SAXIFRAGACEAE.						
D. barbara L. (southeast decumaria)------	Fla., Ga.	Leaves	3	0	0	0
	Fla.	Stems	1	0		
Deeringothamnus pulchellus. See Asimina pulchella.						
Delopyrum, POLYGONACEAE.						
D. filiforme Small-----------------------	Fla.	Whole	1	0		
Delphinium (larkspur), RANUNCULACEAE.						
D. ajacis L. (rocket larkspur)-----------	Fla.	Leaves	1	0		
D. belladonna. See D. cheilanthum formosum.						
D. Cheilanthum formosum ? (hardy garland larkspur; horticultural varieties).	N.J.	Whole	1	.31		
Delphinium sp.---------------------------	U.P.	Whole	1	0		

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
			Number	Percent	Percent	Percent
Dentoceras, POLYGONACEAE.						
D. myriophylla Small	Fla.	Whole	1	0		
Deringa canadensis. See *Cryptotaenia canadensis*.						
Descurainia (tansymustard), CRUCIFERAE.						
D. pinnata (Walt.) Britt.	Fla.	Whole	1	.07		
Descurainia sp.	Colo., Idaho, Kans., Nebr., U.P., Wyo.	Whole	20	0	0	0
	Fla.	?	1	0		
Desmanthus (bundleflower), LEGUMINOSAE.						
Desmanthus sp.	Kans., Nebr., U.P.	Whole	9	0	0	0
Desmodium (tickclover), LEGUMINOSAE.						
D. bracteosum (Michx.) DC.	N.J.	Leaves	1	0		
D. canescens (L.) DC. (hoary tickclover)	Fla., Ga., N.C., S.C.	Leaves	9	0	0	0
	N.J.	Whole	1	.01		
D. ciliare (Muhl.) DC. (little-leaf tickclover).	Fla.	Leaves	2	0	0	0
	Fla.	Stems	1	Tr		
D. *dillenii* Darl. (Dillen tickclover)	N.J., Va.	Leaves	2	0	0	0
D. floridanum. See *D. rhombifolium*						
D. incanum DC.	Fla.	Leaves	2	0	0	0
	Fla.	Whole	2	0	.03	.02
D. laevigatum (Nutt.) DC. (smooth tickclover).	N.J.	Leaves	1	0		
D. lineatum (Michx.) DC.	Fla.	Leaves	1	0		
D. nudiflorum (L.) DC. (barestem trickclover).	Ga.	Leaves	1	0		
D. obtusum. See *D. cileare*.						
D. paniculatum (L.) DC. (panicle tickclover).	Fla., Ga., N.C., S.C., Va.	Leaves	13	0	0	0
	Fla., N.J., Va.	Whole	6	0	.14	.02
D. rhombifolium (Ell.) DC. (diamondleaf tickclover).	Fla.	Leaves	1	0		
D. rotundifolium (Michx.) DC. (roundleaf tickclover).	Ga., W. Va.	Whole	2	0	0	0
D. tenuifolium Torr. & Gray (slimleaf tickclover).	Fla.	Leaves	2	0	0	0
D. tortuosum (Sw.) DC. (Cherokee tickclover).	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
Desmodium sp.	Fla., Ga., Nebr., N.C., S.C., U.P., Va.	Leaves	25	0	.56	.04
	Fla., Kans., Nebr., N.C., Va.	Whole	9	0	.03	Tr
	Fla.	?	5	0	0	0

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Desmothanthus. See Lyonia.						
Dianthera. See Justicia.						
Dianthus (pink; carnation), CARYOPHYLLACEAE.			Number	Percent	Percent	Percent
D. armeria L. (Deptford pink)	N.J.	Leaves	1	0		
	N.J.	Whole	2	0	.07	.04
Diapedium. See Dicliptera						
Dichromena (whitetop-sedge), CYPERACEAE.						
D. colorata (L.) A.S. Hitchc. (starrush whitetop-sedge).	Fla., N.C.	Whole	2	0	0	0
	N.C.	?	1	0		
Dicliptera, ACANTHACEAE.						
D. assurgens (L.) Juss.	Fla., Ga.	Leaves	4	.17	.80	.50
	Fla., Ga.	Stems	3	0	0	0
	Fla.	Whole	5	.61	1.44	.84
	Fla.	?	1	.99		
Dicliptera sp.	Fla.	?	1	1.71		
Dicoria, COMPOSITAE.						
Dicoria sp.	Calif.	Whole	1	.20		
Dicrophyllum. See Euphorbia.						
Diervilla (bushhoneysuckle), CAPRIFOLIACEAE.						
D. lonicera Mill. (dwarf bushhoneysuckle)	N.J.	Leaves	5	Tr	1.68	.59
Diervilla sp.	Ga.	Leaves	1	1.93		
	N.J.	?	2	.03	.09	.06
Digitaria (crabgrass; fingergrass), GRAMINEAE.						
D. sanguinalis (L.) Scop. (hairy crabgrass).	Idaho, Kans., U.P.	Whole	3	0	0	0
Digitaria sp.	Nebr., U.P.	Whole	4	0	0	0
Diodella. See Diodia.						
Diodia (buttonweed), RUBIACEAE.						
D. teres Walt. (rough buttonweed)	Fla., N.J.	Leaves	2	0	.89	.44
	Fla., Ga., N.J., N.C., S.C., Va.	Whole	11	0	.94	.27
	Fla.	?	1	1.71		
D. tetragona Walt.	Fla.	Whole	3	.37	1.03	.73
D. virginiana L. (Virginia buttonweed)	Fla.	Leaves	1	2.40		
	Fla., Ga., N.C., Va.	Whole	10	0	1.82	.76
Diodia sp.	Fla.	No test.				

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Dioscorea (yam), DIOSCOREACEAE.			Number	Percent	Percent	Percent
D. villosa L. (Atlantic yam)--------------	Fla., Ga., N.J., N.C., Va.	Leaves	6	0	0	0
	N.C., W. Va.	Whole	2	0	0	0
Dioscorea sp.----------------------------	Fla.	Leaves	1	0		
Diospyros (persimmon), EBENACEAE.						
D. mosieri. See *D. virginiana platycarpa*.						
D. virginiana L. (common persimmon)-------	Fla., Ga., N.C., S.C.	Leaves	28	0	.33	.01
	Fla.	Stems	6	0	.06	.01
D. virginiana platycarpa Sarg. (Oklahoma persimmon).	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
Diospyros sp.----------------------------	Fla.	Leaves	1	0		
Dipholis (bustic), SAPOTACEAE						
D. salicifolia (L.) DC. (willow bustic)---	Fla.	Leaves	7	.39	3.03	1.42
	Fla.	Stems	5	0	0	0
	Fla.	?	2	.57	.71	.64
Diphylleia (umbrellaleaf), BERBERIDACEAE						
D. *cymosa* Michx. (American umbrellaleaf)--	N.C.	Leaves	1	0		
Dipsacus (teasel) DIPSACACEAE						
D. sylvestris Huds. (venuscup teasel)-----	N.J., Tenn., W. Va.	Leaves	3	0	0	0
	Idaho, N.J.	Whole	2	0	Tr	Tr
Disporum (fairybells), LILIACEAE.						
D. *lanuginosum* (Michx.) Nichols. (hairy fairbybells).	N.C.	Leaves	1	0		
Distichlis (saltgrass), GRAMINEAE.						
Distichlis sp.---------------------------	Colo., Nebr., U.P.	Whole	3	0	0	0
Ditaxis (ditaxis), EUPHORBIACEAE						
D. blodgettii (Torr.) Pax----------------	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
	Fla.	Whole	1	0		
Dodonaea (hopseedbush), SAPINDACEAE						
D. jamaicensis DC.-----------------------	Fla.	Leaves	6	0	0	0
	Fla.	Stems	4	0	0	0
Doellingeria. See *Aster*.						
Dolicholus. See *Rhynchosia*.						
Dolichos (dolichos), LEGUMINOSAE.						
D. lablab L. (hyacinth dolichos)---------	Fla.	Whole	1	0		
Dolichos sp.-----------------------------	Fla.	Whole	1	.01		

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Dombeya (dombeya), STERCULIACEAE.			Number	Percent	Percent	Percent
D. wallichii Benth. & Hook.	Fla.	Leaves	1	.58		
(scarlet dombeya).	Fla.	Stems	1	.05		
Dondia. See Suaeda.						
Dracocephalum (dragonhead), LABIATAE.						
D. denticulatum. See Physostegia denticulata.						
D. leptophyllum. See Physostegia leptophylla.						
D. virginianum. See Physostegia virginiana.						
Dracocephalum sp.	N.J.	?	1	2.22		
Drosera (sundew), DROSERACEAE.						
D. traceyi Macfarlane	Fla.	Whole	1	0		
Drosera sp.	Fla.	?	1	0		
Drymaria (drymary), CARYOPHYLLACEAE.						
D. cordata (L.) Willd.	Fla.	?	1	0		
Dryopteris (woodfern), POLYPODIACEAE.						
D. normalis C. Chr.	Fla.	Whole	2	0	0	0
D. patens (Sw.) Kuntze	Fla.	Whole	1	.01		
Dryopteris sp.	Fla.	?	1	0		
Drypetes (drypetes; guianapium), EUPHORBIACEAE.						
D. laterifolia (SW.) Krug & Urban	Fla.	Leaves	2	0	.13	.06
(whitewood drypetes).	Fla.	Stems	2	0	0	0
Duchesnea (mockstrawberry), ROSACEAE.						
D. indica (L.) Flocke (India mockstrawberry).	Fla.	Whole	1	0		
Dulichium, CYPERACEAE.						
D. arundinaceum (L.) Britt.	Ala., Fla., N.J.	Whole	3	0	0	0
Duranta (skyflower), VERBENACEAE.						
D. repens L. (creeping skyflower)	Fla.	Leaves	1	.88		
	Fla.	Stems	1	.06		
Dyschorista, ACANTHACEAE.						
D. angusta (Gray) Small	Fla.	Whole	2	.85	.92	.88
	Fla.	?	1	.85		
D. humistrata (Michx.) Kuntze	Fla.	Whole	1	.19		
D. oblongifolia (Michx.) Kuntze	Fla.	Whole	1	.42		
Dyschorista sp.	Fla.	Leaves	1	Tr		

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Dyssodia (dogweed), COMPOSITAE.			Number	Percent	Percent	Percent
D. papposa (Vent.) Hitchc. (prairie dogweed).	Colo., U.P.	Whole	7	0	0	0
Dyssodia sp.------------------------------	Colo.	Whole	1	0		
Eccremocarpus (gloryflower), BIGNONIACEAE.						
Eccremocarpus sp.------------------------	Calif.	Whole	1	0		
Echinacea (echinacea), COMPOSITAE.						
Echinacea sp.-----------------------------	U.P.	Whole	1	0		
Echinochloa (cockspur), GRAMINEAE.						
E. crus-galli (L.) Beauv. (barnyardgrass).	Nebr., U.P.	Whole	4	0	0	0
Echinochloa sp.---------------------------	Colo., Fla., Nebr.	Whole	3	0	0	0
Echinocystis (mockcucumber), CUCURBITACEAE.						
E. lobata (Michx.) Torr. & Gray (wild mockcucumber).	N.J	Leaves	3	0	Tr	Tr
Echinocystis sp.--------------------------	Colo.	Whole	1	0		
Echites (savannaflower), APOCYNACEAE.						
E. umbellata Jacq. (devilspotato)---------	Fla.	Leaves	2	1.69	3.57	2.63
	Fla.	Stems	2	.04	.43	.24
	Fla.	Whole	1	.43		
Echium (vipersbugloss), BORAGINACEAE.						
E. vulgare L. (common vipersbugloss)------	N.J., N.C., W. Av.	Leaves	4	0	Tr	Tr
	N.J., Va., W. Va.	Whole	3	0	0	0
Eclipta, COMPOSITAE.						
E. alba (L.) Hassk. (yerbadetajo)---------	Fla.	Leaves	2	Tr	1.56	.78
	Fla., Ga.	Whole	4	0	1.40	.74
	Fla.	?	1	Tr		
Eclipta sp.------------------------------	Fla.	Leaves	1	1.71		
Ehretia (ehretia), BORAGINACEAE.						
Ehretia sp.-------------------------------	Tex.	Leaves	1	0		
Eichornia (waterhyacinth), PONTEDERIACEAE.						
E. crassipes (Mart.) Solms (common waterhyacinth).	Fla.	Whole	1	0		
Elaeagnus (elaeagnus), ELAEAGNACEAE.						
E. multiflora Thunb. (cherry elaeagnus)---	Ga.	Leaves	1	0		
Eleocharis (spikesedge), CYPERACEAE.						
Eleocharis sp.----------------------------	Fla.	Whole	1	0		

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Elephantopus, COMPOSITAE.			Number	Percent	Percent	Percent
E. carolinianus Willd.	Ala., Fla., Ga., S.C., Tenn.	Leaves	7	0	.11	.02
	Fla., Ga., S.C.	Whole	3	0	Tr	Tr
E. elatus Bertol.	Fla.	Leaves	2	.22	.51	.36
	Fla., Ga.	Whole	4	0	.28	.08
E. tomentosus L.	Fla., N.C., S.C.	Whole	8	0	.21	.04
Elephantopus sp.	Fla.	Leaves	2	0	0	0
	Fla.	?	1	Tr		
Elymus (wildrye), GRAMINEAE.						
E. canadensis L. (Canada wildrye)	Nebr., U.P.	Whole	3	0	0	0
Elymus sp.	Utah	Whole	1	1.00		
Elytraria, ACANTHACEAE.						
E. angustifolia (Fern.) Leonard	Fla.	Whole	1	.05		
E. caroliniensis (Walt.) Pers.	Fla.	Whole	1	0		
	Fla.	?	1	Tr		
E. virgata. See E. caroliniensis.						
Emelista. See Cassia.						
Emilia (tasselflower), COMPOSITAE.						
E. coccinea. See E. sagittata.						
E. sagittata (Vahl) DC. (earleaf tasselflower).	Fla.	Whole	2	.43	.64	.54
E. sonchifolia (L.) DC. (sowthistle tasselflower).	Fla.	Leaves	1	2.71		
	Fla.	?	1	0		
Emilia sp.	Fla.	?	2	0	1.71	.86
Enallagma (blackcalabash), BIGNONIACEAE.						
E. latifolia (Mill.) Small	Fla.	Leaves	1	.24		
Endorima, COMPOSITAE.						
E. uniflora (Nutt.) Barnh.	N.C.	Leaves	1	0		
	S.C.	Whole	1	0		
Ephedra (ephedra), GNETACEAE.						
Ephedra sp.	Calif., Nev., U.P.	Whole	6	0	0	0
Epibaterium. See Cocculus.						
Epidendrum (also Epidendron), ORCHIDACEAE.						
E. anceps Jacq.	Fla.	Leaves	1	.39		
	Fla.	Stems	1	Tr		
	Fla.	Whole	1	0		
E. cochleatum L.	Fla.	Whole	2	0	0	0
E. nocturnum L.	Fla.	Whole	1	0		
E. rigidum Jacq.	Fla.	Whole	2	0	0	0
Epidendrum sp.	Fla.	Whole	2	0	0	0

TABLE 1.--Continued

Plants[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Epifagus (beechdrops), OROBANCHACEAE.			Number	Percent	Percent	Percent
E. virginiana (L.) Nutt. (Virginia beechdrops).	Va.	Whole	1	0		
Epigaea (trailing-arbutus), ERICACEAE.						
E. repens L. (trailing-arbutus)	Ga.	Leaves	1	0		
	N.J., W. Va.	Whole	2	0	0	0
Epilobium (willowweed), ONAGRACEAE.						
E. angustifolium L. (fireweed)	Idaho, U.P.	Whole	3	0	0	0
	N.J., Utah	?	4	1.68	3.27	2.61
E. coloratum Muhl. (purpleleaf willowweed).	N.J., N.C.	Leaves	3	Tr	.24	.08
E. lineare Muhl.	N.J.	Whole	1	.02		
Epilobium sp.	U.P., Utah, Wash.	Whole	7	0	.45	.09
Equisetum (horsetail), EQUISETACEAE.						
E. arvense L. (field horsetail)	U.P.	Whole	1	0		
	N.J.	?	1	0		
E. hyemale L. (scouringrush)	N.J.	Whole	1	.27		
Equisetum sp.	U.P., Utah	Whole	3	0	0	0
Eragrostis (lovegrass), GRAMINEAE.						
E. Hypnoides (Lam) BSP. (teal lovegrass)	Fla.	Whole	1	0		
Eragrostis sp.	Colo., Nebr., U.P.	Whole	6	0	0	0
Erechtites (burnweed), COMPOSITAE.						
E. hieracifolia (L.) Raf. (American burnweed).	Fla., Ga., N.C., S.C., W. Va.	Leaves	22	0	4.55	2.14
	Fla.	Stems	6	0	.17	.06
	Fla.	Fruit	2	.05	.09	.07
	Fla., N.J., N.C., S.C., Va., W. Va.	Whole	20	0	2.70	.63
	Fla., N.J.	?	9	Tr	2.34	1.35
Erianthus (plumegrass), GRAMINEAE.						
Erianthus sp.	Va.	Whole	1	0		
Erigeron (fleabane), COMPOSITAE.						
E. annuus (L.) Pers. (annual fleabane)	N.Y.	Leaves	1	1.59		
	Ga., N.C., Va.	Whole	3	.29	.70	.51
	N.J.	?	2	Tr	2.42	1.21
E. canadensis L. (horseweed fleabane)	Fla., N.J.	Leaves	9	Tr	2.28	1.21
	Calif., Colo., Fla., Idaho, Kans., Nebr., N.J., N.C., Oreg., U.P., Va., Wisc.	Whole	58	0	.93	.20
	Fla., N.J.	?	8	Tr	2.95	1.30
E. filifolius (Hook.) Nutt. (threadleaf fleabane).	Oreg.	Whole	1	.07		
E. linifolius Willd.	Fla., U.P.	Whole	2	.05	.80	.42

TABLE 1.--Continued

Plants[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Erigeron (fleabane), COMPOSITAE--Continued			Number	Percent	Percent	Percent
E. pusillus Nutt.	Fla.	Leaves	1	1.50		
	Fla.	Stems	1	0		
	Fla.	Whole	1	Good yield		
E. quercifolius Lam. (oakleaf fleabane)	Fla.	Leaves	1	1.71		
	Fla.	Whole	9	.06	.93	.49
	Fla.	?	3	0	1.56	.85
E. ramosus. See E. strigosus.						
E. strigosus Muhl.	Ga.	Leaves	1	2.08		
	Fla., Ga., N.C.	Whole	6	.02	1.35	.52
	N.J.	?	3	1.14	3.27	2.29
E. vernus (L.) Torr. & Gray (early whitetop fleabane).	Fla.	Leaves	1	Tr		
	Fla.	?	1	1.85		
Erigeron sp.	Fla.	Leaves	3	0	3.85	1.65
	Fla.	Stems	1	.18		
	Calif., Fla., Kans., Nebr., U.P., W. Va., Wash.	Whole	8	0	1.02	.16
	Fla.	?	1	0		
Eriobotrya (loquat), ROSACEAE.						
E. japonica Lindl. (loquat; japanesemedlar).	Fla.	Leaves	2	0	0	0
Eriocaulon (pipewort), ERIOCAULACEAE.						
E. decangulare L. (tenangle pipewort)	Fla.	Whole	1	0		
E. lineare Small	Fla.	Whole	1	0		
Eriocaulon sp.	N.C.	Whole	1	0		
Eriodictyon (yerbasanta), HYDROPHYLLACEAE.						
Eriodictyon sp.	Calif.	Leaves	1	0		
Eriogonum (eriogonum), POLYGONACEAE.						
E. tomentosum Michx.	Fla., Ga., S.C.	Leaves	6	0	0	0
	Fla.	Whole	1	0		
E. wrightii Torr.? (Wrights eriogonum)	N. Mex.	Whole	2	0	0	0
Eriogonum sp.	Colo., Nebr., Nev., N. Mex., Oreg.	Whole	13	0	0	0
	Fla.	?	1	0		
Erithalis, RUBIACEAE.						
E. fruticosa L.	Fla.	Leaves	1	2.27		
	Fla.	Stems	1	4.17		
Ernodea, RUBIACEAE.						
E. littoralis Sw.	Fla.	Leaves	4	0	2.31	1.07
	Fla.	Stems	3	0	0	0
	Fla.	?	2	.57	.71	.64
Ernodia sp.	Fla.	?	1	1.14		

TABLE 1.--Continued

Plants[1]	Collected in[2] [3]	Laboratory tests for rubber				
		Part tested[4] [5]	Tests	Low	High	Mean
Erodium (heronbill), GERANIACEAE.			*Number*	*Percent*	*Percent*	*Percent*
E. cicutarium (L.) L'Her. (alfileria)-----	N. Mex., Oreg.	Whole	2	0	0	0
Eryngium (eryngium), UMBELLIFERAE.						
E. aromaticum Baldw.----------------------	Fla.	Whole	4	0	.11	.03
E. floridanum Coult. & Rose (Florida eryngium).	Fla.	Whole	1	0		
E. integrifolium Walt.--------------------	Ala.	Leaves	1	0		
	Fla., N.C.	Whole	2	0	0	0
E. leavenworthii Torr. & Gray (Leavenworth eryngium).	Tex.	Whole	1	0		
E. prostratum Nutt. (creeping eryngium)---	Fla.	Whole	1	0		
E. synchaetum (A. Gray) Rose-------------	Fla.	Whole	3	0	0	0
Eryngium sp.-----------------------------	Fla.	Leaves	1	0		
	Ga.	Whole	1	0		
	Fla.	?	3	0	0	0
Erysimum. See *Sisymbrium*.						
Erythrina (coralbean), LEGUMINOSAE.						
E. arborea. See *E. herbacea*.						
E. herbacea L. (eastern coralbean)--------	Fla., Ga., S.C.	Leaves	9	0	0	0
	Fla.	Stems	4	0	.03	.01
	Fla.	Seeds	1	0		
	Fla.	Whole	2	0	0	0
Eschscholtzia (goldpoppy), PAPAVERACEAE.						
E. californica Cham. (Californiapoppy)----	Fla.	Whole	2	0	.03	.02
Eucalyptus (eucalyptus), MYRTACEAE.						
Eucalyptus sp.---------------------------	Fla.	Leaves	5	0	.06	.02
	Fla.	Stems	3	0	.05	.03
Eugenia (eugenia), MYRTACEAE.						
E. axillaris (Sw.) Willd. (Whitestopper eugenia).	Fla.	Leaves	14	0	.48	.08
	Fla.	Stems	8	0	.02	Tr
E. buxifolia. See *E. myrtoides*.						
E. myrtoides Poir. (boxleaf eugenia)------	Fla.	Leaves	4	0	0	0
	Fla.	Stems	4	0	0	0
E. simpsonii (Small) Sarg. (Simpson eugenia).	Fla.	Leaves	15	0	.29	.03
	Fla.	Stems	9	0	0	0
E. uniflora L.(pitanga)------------------	Fla.	Leaves	2	0	0	0
	Fla.	Stems	1	0		
Eugenia sp.------------------------------	Fla.	Leaves	5	0	1.27	.25
	Fla.	Stems	4	0	0	0
	Fla.	?	8	0	2.14	.27

TABLE 1.--Continued

Plant[1]	Collected in [2,3]	Laboratory tests for rubber				
		Part tested [4,5]	Tests	Low	High	Mean
Euonymus (also Evonymus) (euonymus), CELASTRACEAE.			Number	Percent	Percent	Percent
E. alatus (Thunb.) Sieb. (winged euonymus)	N.J.	Whole	1	.44		
E. americanus L. (brook euonymus)	Fla., Ga., N.C.	Leaves	7	0	.80	.32
E. atropurpureus Jacq. (eastern wahoo)	N.J.	Leaves	1	Tr		
E. japonicus Thunb. (evergreen euonymus).	Fla., Ga.	Leaves	2	1.00	1.31	1.16
E. thunbergianus. See *E. alatus*.						
Euonymus sp.	Ga.	Leaves	1	2.37		
	?	Whole	1	.48		
	Fla., N.J.	?	2	Tr	.71	.36
Eupatorium (eupatorium), COMPOSITAE.						
E. album L.	Fla., Ga., N.J., S.C.	Leaves	6	0	.57	.10
	Ga.	Seeds	1	.04		
	Ga., N.J.	Whole	2	0	.09	.04
	N.J.	?	1	0		
E. altissimum L. (tall eupatorium)	Tenn.	Leaves	1	.45		
E. anomalum Nash	Fla.	Leaves	1	.08		
E. aromaticum L.	Fla., Ga., N.C., Va.	Leaves	5	0	1.71	.54
	Va.	Whole	1	0		
E. bruneri A. Gray (Bruner joepyeweed).	Utah	Whole	1	.20		
E. capillifolium (Lam.) Small (dogfennel eupatorium).	Fla.	Leaves	1	.32		
	Fla.	Stems	1	.35		
	Fla., Ga.	Whole	7	0	.25	.10
	Fla.	?	1	Tr		
E. coelestinum L. (mistflower eupatorium).	Fla., Tenn.	Leaves	5	0	1.36	.48
	Fla.	Stems	1	0		
	Fla.	Flowers	1	.26		
	Fla., N.J.	Whole	8	.04	1.11	.41
	Fla.	?	2	Tr	Tr	Tr
E. compositifolium Walt.	Fla.	Whole	1	0		
E. hyssopifolium L.	Ala., Fla., Ga., N.C., S.C.	Leaves	8	0	.95	.27
	Ga., N.J., N.C., S.C., Va.	Whole	6	0	.02	Tr
	N.J.	?	1	0		
E. incarnata Walt. (pink eupatorium).	Tenn.	Leaves	1	.90		
E. jucundum Greene	Fla.	Leaves	6	0	1.27	.60
	Fla.	Whole	2	0	1.31	.66
	Fla.	Stems	1	0		
E. mikanioides Chapm.	Fla.	Leaves	4	.03	.29	.13
	Fla.	Stems	3	0	.13	.04
	Fla.	Whole	4	.05	.21	.12
E. odoratum L. (christmasbush eupatorium).	Fla., Tex.	Leaves	5	Tr	1.99	.97
	Fla.	Stems	3	0	0	0

TABLE 1.--Continued

Plant[1]	Collected[2], [3]	Laboratory tests for rubber				
		Part tested[4], [5]	Tests	Low	High	Mean
Eupatorium (eupatorium), COMPOSITAE--Continued						
E. ovatum Muhl.	No information		Number	Percent	Percent	Percent
E. perfoliatum L. (boneset)	Fla., Ga., N.J., N.C., S.C., Va., W. Va.	Leaves	12	0	.32	.10
	Fla.	Stems	1	0		
	Fla.	?	1	0		
E. pubescens Muhl.	Ga., N.C.	Leaves	4	.08	.47	.25
	N.J.	?	1	Tr		
E. purpureum L. (bluestem joepyeweed).	Fla., Ga., N.J., N.C., Va., W. Va.	Leaves	16	0	2.03	.50
	N.J., N.C.	Whole	2	0	.25	.12
	N.J.	?	2	Tr	Tr	Tr
E. recurvans Small	Fla.	Leaves	5	0	.17	.05
	Fla.	Stems	1	Tr		
	Fla.	Whole	1	.02		
	Fla.	?	1	Tr		
E. rotundifolium L.	Fla., Ga., N.C., S.C., Va.	Leaves	10	0	.42	.18
	Fla.	Stems	1	0		
	Ga.	Flowers	1	0		
E. rugosum Houtt (white snakeroot)	N.J., N.C., Va., W. Va.	Leaves	7	0	1.45	.39
	N.J.	Whole	5	.03	.17	.10
	N.J.	?	1	1.14		
E. semiserratum DC.	Ala., S.C.	Leaves	3	0	.78	.34
E. serotinum Michx. (late eupatorium).	Fla., N.C., S.C.	Leaves	15	0	1.52	.34
	Fla.	Stems	7	0	.02	Tr
	Fla.	Whole	4	.02	.69	.24
	Fla.	?	Tr			
E. sessilifolium L.	N.J., N.C., Va.	Leaves	4	0	Tr	Tr
E. torreyanum Short ? (Torrey eupatorium).	N.C.	Whole	1	0		
E. tortifolium Ell.	Fla., Ga.	Leaves	2	.28	1.41	.84
E. urticifolium. See *E. rugosum*.						
E. verbenifolium Michx.	N.C.	Leaves	2	1.33	1.85	1.59
	N.J., Va.	Whole	2	.14	.30	.22
E. villosum Sw.	Fla.	Leaves	2	.85	1.97	1.41
	Fla.	Stems	1	0		
	Fla.	Whole	1	.83		
	Fla.	?	1	medium ppt.		
Eupatorium sp.	Ala., Fla., Ga., La., S.C.	Leaves	16	0	2.01	.24
	Fla.	Stems	1	0		
	La., U.P.	Whole	2	.12	.28	.20
	Fla., N.J.	?	11	0	Tr	Tr

TABLE 1.--Continued

Plant[1]	Collected in[2 3]	Laboratory tests for rubber				
		Part tested[4 5]	Tests	Low	High	Mean
Euphorbia (euphorbia) EUPHORBIACEAE.			Number	Percent	Percent	Percent
E. antisyphilitica Zucc. (wax euphorbia)	?	Whole	1	.24		
E. brasiliensis. See E. *hyssopifolia*.						
E. buxifolia Lam.	Fla.	Leaves	1	.04		
	Fla.	Stems	1	.15		
	Fla.	Whole	4	0	.42	.12
E. chamaesyce L.	S.C.	No test				
E. cordifolia Ell.	Fla.	Whole	1	0		
E. corollata L. (flowering-spurge euphorbia).	N.J., N.C., S.C., Va.	Leaves	5	0	Tr	Tr
	Ga., N.C., S.C., W.Va.	Whole	5	0	0	0
E. curtisii Engelm.	Fla., Ga.	Whole	2	0	0	0
E. cyparissias L. (cypress euphorbia)	N.J.	Leaves	1	0		
	N.J., Mich.	Whole	3	0	.03	.01
E. dentata Michx. (toothed euphorbia)	Fla., Tenn.	Leaves	2	0	0	0
	Kans.	Whole	1	0		
	Fla.	?	1	0		
E. esula L. (leafy euphorbia)	?	Whole	1	.17		
E. floridana Chapm.	Fla.	Whole	1	0		
E. glyptosperma Engelm. (ridgeseed euphorbia).	Okla.	No test				
E. gracilis Ell.	Fla.	Whole	1	0		
E. heterophylla L. (painted euphorbia)	Fla.	Leaves	8	0	.45	.09
	Fla.	Stems	4	0	.10	.02
	Fla.	Whole	5	0	.25	.05
E. hexagona Nutt. (sixangle euphorbia)	Okla.	Whole	1	.14		
E. hirsuta. See *E. vermiculata*.						
E. hirta L.	Fla.	Whole	1	0		
E. hyssopifolia L.	Fla.	Leaves	1	0		
	Fla.	Whole	8	0	1.24	.28
E. inundata Torr.	Fla.	Whole	2	0	.05	.02
E. ipecacuanhae L. (ipecac euphorbia)	No information					
E. lathyrus L. (caper euphorbia; moleplant; moleweed).	Fla., ?	Leaves	2	0	0	0
	?	Stems	1	0		
	Fla., Va.	Whole	2	.23	.31	.27
E. maculata L. (spotted euphorbia)	N.J., Tenn.	Leaves	4	0	0	0
	Fla., Kans., Nebr., N.J., N.C., S.C., Va.	Whole	16	0	.19	.01
E. marginata Pursh (snow-on-the mountain euphorbia).	Fla., Va.	Leaves	3	0	0	0
	Fla.	Flowers	1	0		
	Colo., Kans., Nebr., Tex., U.P.	Whole	13	0	.13	.08
E. marylandica Greene?	Va.	No test				

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Euphorbia (euphorbia) EUPHORBIACEAE--Continued			Number	Percent	Percent	Percent
E. mili Desmoul. (crownofthorns euphorbia).	?	Whole	1	.15		
E. myrsinites L. (myrtle euphorbia).	?	Whole	1	.17		
E. nutans. See *E. maculata*.						
E. paniculata Ell.	Ga.	Leaves	2	0	0	0
E. polygonifolia L.	Fla.	Whole	1	0		
E. polyphylla Engelm.	Fla.	Whole	5	0	.43	.19
E. preslii. See *E. maculata*.						
E. prostrata. See *E. chamaesyce*.						
E. pucherrima Willd. (common poinsettia).	Fla., Tex.	Leaves	4	0	.10	.03
	Tex.	Stems	1	0		
E. splendens. See *E. mili*.						
E. stictospora Engelm. ?	Okla.	No test.				
E. trichotoma HBK	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
	Fla.	Whole	3	.05	.57	.21
E. vermiculata Raf.	Mass.	No test.				
Euphorbia sp.	Colo., Fla.	Leaves	7	0	.06	Tr
	Fla.	Stems	3	0	.11	.04
	Fla.	Bark	1	.43		
	Fla.	Roots	1	.43		
	Calif., Colo., Fla., Kans., Nebr., N. Mex., N.C., S.C., Tex., U.P., Utah, ?	Whole	65	0	2.02	.08
	Fla.	?	15	0	Tr	Tr
Eurotia (winterfat), CHENOPODIACEAE.						
E. lanata (Pursh) Moq. (common winterfat).	Colo., N. Mex.	Whole	7	0	0	0
Eustoma (prairiegentian), GENTIANACEAE.						
E. exaltata (L.) Griseb.	Fla.	Leaves	1	0		
	Fla.	Whole	1	Tr		
	Fla.	?	2	0	0	0
Eustoma sp.	U.P.	Whole	1	0		
Evolvulus (evolvulus), CONVOLVULACEAE.						
Evolvulus sp.	Tex.	Whole	1	0		
Exochorda (pearlbush), ROSACEAE.						
E. racemosa Lindl. (common pearlbush).	Ga.	Leaves	1	0		
Exogonium, CONVOLVULACEAE.						
E. microdactylum (Griseb.) House	Fla.	Whole	1	0		

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Exostemma, RUBIACEAE.			Number	Percent	Percent	Percent
E. caribaeum (Jacq.) R.&S. (Caribbean princewood).	Fla.	Leaves	1	.55		
Fagara See *Zanthoxylum*						
Fagopyrum (buckwheat), POLYGONACEAE.						
F. vulgare Hill---------------------------	N.J., N.C.	Leaves	4	0	0	0
Fagus (beech), FAGACEAE.						
F. grandifolia Ehrh. (American beech)	Fla., S.C.	Leaves	2	0	0	0
Falcata. See *Amphicarpa*.						
Fallugia (apacheplum), ROSACEA.						
F. paradoxa (Don.) Endl. ? (apacheplum).	N. Mex.	Whole	1	0		
Fatsia See *Tetrapanax*.						
Feijoa (feijoa), MYRTACEAE.						
F. sellowiana Berg. (feijoa)--------------	Fla.	Leaves	1	.40		
	Fla.	Stems	1	.04		
Festuca (fescue), GRAMINEAE.						
Festuca sp.-------------------------------	Colo., Nebr.	Whole	2	0	0	0
Ficus (fig), MORACEAE.						
F. aurea Nutt. (Florida strangler fig).	Fla.	Leaves	6	0	.45	.16
	Fla.	Stems	6	0	.37	.15
E. brevifolia Nutt. (shortleaf fig).	Fla.	Leaves	6	0	.21	.03
	Fla.	Stems	6	0	.05	.01
F. carica L. (common fig)-----------------	Fla.	Leaves	3	0	.08	.03
	Fla.	Stems	2	0	.09	.04
F. pumila L. (climbing fig)---------------	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
	Fla.	Whole	1	0		
F. religiosa L. (botree fig)--------------	Fla.	Leaves	1	0		
	Fla.	Stems	1	.02		
F. repens. See *F. pumila*						
F. sycomorus L. (sycomore fig)	Fla.	?	1	0		
Ficus sp.---------------------------------	Fla.	Leaves	9	0	.69	.15
	Fla.	Stems	5	0	.34	.19
	Fla.	?	1	0		
Firmiana, STERCULIACEAE.						
F. simplex (L.) W.F. Wight (Chinese parasoltree).	Fla.	Leaves	2	0	0	0

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Flaveria, COMPOSITAE.			Number	Percent	Percent	Percent
F. bidentis (L.) Kuntze-------------------	Fla.	Leaves	1	0		
F. linearis Lag.--------------------------	Fla.	Leaves	3	0	1.51	.97
	Fla.	Stems	1	0		
	Fla.	Flowers	1	.31		
	Fla.	Whole	6	0	.50	.29
	Fla.	?	1	Tr		
	Fla.		1	Not tested		
F. sp.------------------------------------	Fla.	Leaves	1	1.70		
	Fla.	Stems	1	.06		
	Fla.	?	1	.85		
Foeniculum (fennel), UMBELLIFERAE.						
Foeniculum sp.----------------------------	U.P.	Whole	1	0		
Forestiera (forestiera), OLEACEAE.						
F. ligustrina (Michx.) Poir. (privet forestiera).	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
F. porulosa (Michx.) Poir.----------------	Fla.	Leaves	11	0	.22	.04
	Fla.	Stems	8	0	0	0
Forsythia (forsythia), OLEACEAE.						
F. viridissima Lindl. (greenstem forsythia).	Ga.	Leaves	1	0		
Forsythia sp.-----------------------------	Ga.	Leaves	1	0		
Fragaria (strawberry), ROSACEAE.						
F. virginiana Duch. (Virginia strawberry).	N.J.	Whole	2	0	.08	.04
Fragaria sp.------------------------------	Ga., N.J.	Leaves	2	0	Tr	Tr
Fransera (bursage), COMPOSITAE.						
F. acanthicarpa (Hook.) Cav.--------------	Colo., Idaho, Kans., Oreg.	Whole	8	0	.22	.05
F. confertiflora (DC.) Rydb.--------------	Tex.	Whole	1	.24		
F. discolor Nutt. (skeletonleaf bursage).	Colo., U.P.	Whole	3	0	.25	.12
F. tenuifolia (Harv. & Gray) A. Gray (slimleaf bursage).	Tex.	Whole	1	Tr		
F. tomentosa A. Gray (woollyleaf bursage).	Calif., Kans.	Whole	2	.21	.42	.32
Fransera sp.------------------------------	Calif., Colo., Kans., Nebr., N. Mex., U.P.	Whole	11	0	.27	.06
Frasera (frasera; elkweed), GENTIANACEAE.						
F. carolinensis Walt. (Carolina frasera).	Ga.	Leaves	1	0		

TABLE 1.--Continued

Plant[1]	Collected in[2], [3]	Laboratory tests for rubber				
		Part tested [4], [5]	Tests	Low	High	Mean
Fraxinus (ash), OLEACEAE.			Number	Percent	Percent	Percent
F. americana L. ? (white ash)-------------	Ga.	Leaves	1	0		
F. caroliniana Mill. (Carolina ash).------	Fla., S.C.	Leaves	15	0	.30	.04
	Fla.	Stems	9	0	0	0
F. lanceolata. see F. pennsylvanica lanceolata.						
F. pennsylvanica lanceolata (Borkh.) Sarg. (green ash).	Fla., N.J.	Leaves	2	0	0	0
	Fla.	Stems	1	0		
Fraxinus sp.-------------------------------	Fla., Nebr., N.J., N.C., S.C.	Leaves	13	0	.03	Tr
	Fla.	Stems	1	0		
	N.J.	Whole	1	.05		
	Fla.	?	1	0		
F. ?--	Ga.	Leaves	1	0		
Froelichia, AMARANTHACEAE.						
F. campestris Small------------------------	Tex.	Whole	1	0		
F. floridana (Nutt.) Moq.-----------------	Fla.	Leaves	2	0	0	0
	Fla.	Whole	3	0	0	0
Froelichia sp.----------------------------	Colo., Nebr., U.P.	Whole	4	0	0	0
Fuirena, CYPERACEAE.						
F. scirpoidea Michx.----------------------	Fla.	Leaves	1	0		
F. squarrosa Ell.-------------------------	S.C.	Whole	1	0		
Fuirena sp.-------------------------------	Ga.	Whole	1	0		
Funastrum, See Philibertia.						
Gaillardia (gaillardia), COMPOSITAE.						
G. aristata Pursh (common perennial gaillardia).	N.J.	Whole	1	.31		
G. drummondii (Hook.) DC.-----------------	Fla.	Leaves	1	0		
G. lanceolata Michx.----------------------	Ala., Fla., Ga.	Leaves	5	0	0	0
Gaillardia sp.----------------------------	Fla.	Leaves	1	.09		
	Fla.	Stems	1	0		
	Fla.	Flowers	1	0		
	Fla.	?	1	0		
Galactia (milkpea), LEGUMINOSAE.						
G. elliottii Nutt.------------------------	Fla.	Whole	3	0	0	0
G. floridana Torr. & Gray ?---------------	Ga.	Whole	1	0		
G. parvifolia A. Rich.--------------------	Fla.	Leaves	1	0		
	Fla.	Whole	1	Tr		
G. pinetorum Small------------------------	Fla.	Whole	1	.34		
G. spiciformis Torr. & Gray---------------	Fla.	Whole	6	0	.15	03
Galactia sp.------------------------------	Fla.	Leaves	2	0	0	0
	Fla.	Whole	3	0	.05	.02
	Fla.	?	2	0	0	0

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Galarhoeus. See Euphorbia.						
Galax (galax), DIAPENSIACEAE			Number	Percent	Percent	Percent
G. aphylla L. (galax)----------------------	Ga.	Whole	1	0		
Galeopsis (hempnettle), LABIATAE.						
G. tetrahit L. (brittlestem hempnettle).	N.C.	Leaves	1	0		
Galinsoga (quickweed), COMPOSITAE.						
G. ciliata (Raf.) Blake (fringed quickweed).	N.J., N.C.	Leaves	3	Tr	.40	.13
G. parviflora Cav. (littleflower quickweed).	N.C.	Whole	1	.43		
Galium (bedstraw), RUBIACEAE.						
G. aparine L. (catchweed bedstraw)--------	N.J.	Whole	1	.24		
G. asprellum Michx. (rough bedstraw).	N.C.	Whole	1	.11		
G. boreale L. (northern bedstraw)---------	N.J. N.J., U.P.	Leaves Whole	1 2	Tr 0	 Tr	 Tr
G. hispidulum Michx. (coast bedstraw).	Fla.	Whole	1	.39		
G. mollugo L. (white bedstraw)------------	N.J.	Leaves	1	Tr		
G. pilosum Ait. (hairy bedstraw)----------	Fla., W.Va.	Whole	2	0	.10	.05
Galium sp.--------------------------------	Fla., N.J. Fla.	Whole ?	3 4	0 0	1.13 .43	.38 .11
Galypola, See Polygala.						
Garberia (garberia), COMPOSITAE.						
G. fruiticosa (Nutt.) A. Gray (garberia).	Fla. Fla. Fla.	Leaves Stems ?	5 1 1	0 .02 0	.06	.01
Garcinia (garcinia), GUTTIFERAE.						
Garcinia sp.------------------------------	Fla. Fla.	Leaves Stems	1 1	.08 .02		
Gardenia (gardenia), RUBIACEAE.						
G. jasminoides Ellis (capejasmine)--------	Fla., Ga.	Leaves	3	1.38	2.35	1.77
Gaultheria (wintergreen), ERICACEAE.						
G. procumbens L. (checkerberry wintergreen).	N.J.	Leaves	1	0		
Gaura (gaura), ONAGRACEAE.						
G. angustifolia Michx.--------------------	Fla. Fla.	Leaves Whole	2 5	.47 .10	1.07 .80	.77 .38
G. biennis L. (biennial gaura)------------	N.J., Tenn. Va.	Leaves Whole	2 1	1.00 .08	1.85	1.42
G. eatonii Small--------------------------	Fla. Fla. Fla. Fla.	Leaves Stems Whole ?	1 1 1 2	.32 0 .59 Tr	 .43	 .22

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
			Number	Percent	Percent	Percent
Gaura (gaura), ONAGRACEAE.--Continued						
G. michauxii Spach------------------------	Ga.	Leaves	1	1.82		
G. parviflora Dougl.----------------------	Ga.	Leaves	1	.42		
	Colo., Nebr.	Whole	5	0	.29	.06
G. simulans Small-------------------------	Fla.	Leaves	1	.62		
Gaura sp.---------------------------------	Fla., Ga.	Leaves	8	Tr	1.52	.59
	Colo., Fla., Ga., Idaho, Kans., Nebr., Tex., U.P., Utah	Whole	13	0	.52	.16
	Fla.	?	1	.96		
Gaylussacia (huckleberry), ERICACEAE.						
G. baccata (Wang.) Koch (black huckleberry).	N.J., W.Va.	Leaves	3	0	0	0
G. dumosa (Andr.) Torr. & Gray (dwarf huckleberry).	Ala.	Leaves	1	0		
G. frondosa (L.) Torr. & Gray (dangleberry).	N.J., S.C.	Leaves	4	0	0	0
G. nana (Gray) Small (little huckleberry).	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
	Fla.	Fruit	1	0		
G. tomentosa (Pursh) Small----------------	Fla.	Leaves	1	0		
G. ursina M.A.Curtis----------------------	Ga.	Leaves	1	0		
Gaylussacia sp.---------------------------	N.C.	Leaves	1	0		
Gelsemium (Carolina jessamine), LOGANIACEAE.						
G. sempervirens (L.) Ait.f. (Carolina jessamine; yellow jessamine).	Fla., Ga., N.C., S.C., Va.	Leaves	16	0	.54	.12
	Fla.	Whole	1	0		
Gelsemium sp.-----------------------------	Fla.	Whole	1	.08		
	Fla.	?	1	0		
Gemmingia, See *Belamcanda*.						
Genipa (genip), RUBIACEAE.						
G. clusifolia Jacq. (sevenyear-apple genip).	Fla.	Leaves	6	Tr	1.99	.85
	Fla.	Stems	5	0	.39	.13
	Fla.	?	1	Tr		
Gentiana (gentian), GENTIANACEAE.						
G. andrewsii Griseb. (Andrews gentian).	N.J.	Leaves	2	0	0	0
	N.J.	Whole	1	.07		
G. quinquefolia L. (fiveleaf gentian).	N.C., W.Va.	Whole	2	0	0	0
G. saponaria L. (bottle gentian)----------	N.J.	Whole	1	.16		
Gentiana sp.------------------------------	N.J.	Leaves	1	Tr		
Geobalanus, ROSACEAE.						
G. pallidus Small-------------------------	Fla.	Leaves	1	0		

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Geranium (geranium; crowfoot), GERANIACEAE.			Number	Percent	Percent	Percent
G. carolinianum L. (Carolina geranium).	Va.	Whole	1	0		
G. maculatum L. (spotted geranium)--------	N.J., N.C.	Leaves	1	0		
	W. Va.	Whole	1	0		
Geranium sp.------------------------------	Utah	Whole	1	0		
	Fla.	?	1	0		
Gerardia (gerardia), SCROPHULARIACEAE.						
G. fasciculata Ell.-----------------------	Fla.	Leaves	1	0		
G. maritima Raf. (seaside gerardia)-------	Fla.	Whole	1	0		
G. tenuifolia Vahl.-----------------------	Ala., N.J.	Whole	2	0	.14	.07
Gerardia sp.------------------------------	Fla.	Leaves	2	0	0	0
	Fla., Ga., N.J., N.C., S.C.	Whole	9	0	.03	Tr
	Fla.	?	2	0	0	0
Geum (avens), ROSACEAE.						
G. canadense Jacq. (white avens)----------	W. Va.		1	No test		
Geum sp.----------------------------------	N.J.	Leaves	2	0	Tr	Tr
Gibbesia. See Paronychia.						
Gilia (gilia), POLEMONIACEAE.						
G. rubra (L.) Heller (Texasplume)---------	Fla.	Whole	2	0	0	0
Gilia sp.---------------------------------	N. Mex.	Whole	1	0		
Gillenia, ROSACEAE.						
G. trifoliata (L.) Moench. (bowmansroot).	N.C.	Leaves	1	0		
Gladiolus (gladiola), IRIDACEAE.						
Gladiolus sp.-----------------------------	Fla.	Whole	1	0		
Glandularia See Verbena.						
Glecoma, LABIATAE.						
G. hederacea L.---------------------------	Va.	Whole	1	.09		
Gleditsia (honeylocust), LEGUMINOSAE.						
G. aquatica Marsh. (waterlocust)----------	Ga.	Leaves	1	0		
G. triacanthos L. (common honey-locust).	Fla., N.J.	Leaves	2	0	0	0
	N.J.	Whole	1	.04		
Gleditsia sp.-----------------------------	N.C., S.C.	Leaves	3	0	0	0
Glottidium (bagpod), LEGUMINOSAE.						
G. vesicarium (Jacq.) Harper (bagpod).	Fla., Ga., S.C.	Leaves	6	0	0	0
	Fla.	Stems	2	0	0	0
Glycine (groundnut), LEGUMINOSAE.						
G. max (L.) Merr. (soybean)---------------	Ga., N.J.	Leaves	5	0	Tr	Tr

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Glycyrrhiza (licorice), LEGUMINOSAE.			Number	Percent	Percent	Percent
G. lepidota Nutt. (American licorice).	Wyo.	Whole	1	0		
Glycyrrhiza sp.	Idaho, Oreg., U.P. Utah	Whole	9	0	0	0
Gnaphalium (cudweed), COMPOSITAE						
G. chilense Spreng. ? (cotton-batting cudweed).	Ga.	Whole	1	.13		
G. decurrens. See G. macounii.						
G. falcatum Lam.	Fla.	Whole	1	.11		
	Fla.	?	2	Tr	Tr	Tr
G. macounii Greene (winged cudweed)	N.Y.	Leaves	1	2.14		
G. obtusifolium L. (fragrant cudweed).	Fla., Ga., N.C., S.C., Va., W. Va.	Leaves	20	.03	3.17	1.41
	Fla., Ga.	Stems	2	0	0	0
	Fla., Kans., N.J., N.C., Va.	Whole	8	0	.93	.48
	N.J., N.C., Va.	?	3	1.82	3.13	2.34
G. purpureum L. ? (purple cudweed)	Ga.	Leaves	1	.54		
G. spathulatum Lam. (low cudweed)	Fla.	Whole	2	0	0	0
	Fla.	?	1	Tr		
G. uliginosum L. (low cudweed)	N.J.	Whole	2	0	Tr	Tr
G. wrightii A. Gray	N. Mex.	Whole	1	.28		
Gnaphalium sp.	N.C.	Leaves	1	1.29		
	Wash.	Whole	1	0		
Gomphrena (globeamaranth), AMARANTHACEAE.						
G. dispersa Standl.	Fla.	Leaves	1	0		
Goodyear (rattlesnakeplantain), ORCHIDACEAE.						
G. pubescens R.Br. (downy rattlesnakeplantain).	N.C.	Leaves	1	0		
Gordonia (gordonia), THEACEAE.						
G. lasianthus (L.) Ellis (loblollybay gordonia).	Fla.	Leaves	2	0	0	0
Gossypium (cotton), MALVACEAE.						
G. herbaceum L. (levant cotton)	Fla., Ga.	Leaves	2	0	0	0
	Fla.	Flowers	1	0		
G. hirsutum L. (upland cotton)	Fla.	Leaves	5	.02	.23	.13
	Fla.	Stems	5	0	0	0
Gossypium sp.	Fla.	?	1	0		
Gouania, RHAMNACEAE.						
G. lupluoides (L.) Urban	Fla.	Leaves	1	.01		
	Fla.	Whole	1	0		

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
			Number	Percent	Percent	Percent
Gratiola (hedgehyssop), SCROPHULARIACEAE.						
G. ramosa Walt.	Fla.	Whole	2	.06	.12	.09
G. subulata See Sophronanthe hispida.						
Gratiola sp.	Fla.	?	2	0	Tr	Tr
Grevillea (grevillea), PROTEACEAE.						
G. robusta A. Cunn. (silkoak grevillea).	Fla.	Leaves	2	0	.15	.08
Grindelia (gumweed), COMPOSITAE.						
G. aphanactis Rydb.	Idaho, U.P.	Whole	2	.15	.39	.27
G. erecta A. Nels.	Colo.	Leaves	1	3.69		
G. perennis A. Nels.	Nebr.	Whole	2	.12	.22	.17
G. serrulata Rydb.	U.P.	Whole	1	.08		
G. squarrosa (Pursh) Dunal. (curlycup gumweed).	Colo., Idaho, Kans., Nebr., U.P., S. Dak., Utah, ?	Whole	21	0	.77	.17
	?	No test.				
G. subincisa Rydb.	Utah	Whole	1	0		
Grindelia sp.	Idaho, Kans., Mont., U.P., Utah, Colo., Tex.	Whole	29	0	.82	.17
Grossularia. See Ribes.						
Guaiacum (lignumvitae), ZYGOPHYLLACEAE.						
G. sanctum L. (holywood lignumvitae).	Fla.	Leaves	1	.85		
Guettarda (velvetseed), RUBIACEAE.						
G. elliptica Sw. (Everglades velvetseed).	Fla.	Leaves	3	Tr	3.42	1.71
	Fla.	Stems	1	0		
	Fla.	?	3	Light to medium ppt.		
G. scabra (L.) Vent. (roughleaf velvetseed).	Fla.	Leaves	3	.62	2.25	1.27
	Fla.	Stems	3	0	0	0
	Fla.	?	1	1.56		
Guilandina crista. See Caesalpinia crista.						
Gutierrezia (snakeweed), COMPOSITAE.						
G. dracunculoides (DC.) Blake (terragon snakeweed; broomweed).	Ala., Mo.	Whole	2	.45	1.48	.96
G. filifolia. See G. microcephala.						
G. juncea Greene	Colo.	Whole	1	.35		
G. microcephala A. Gray	N.Mex.	Whole	1	.25		
Gutierrezia sp.	Colo., Nebr., N. Mex., Tex., U.P., Utah	Whole	7	0	1.03	.22

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Gymnanthes (oysterwood), EUPHORBIACEAE.			Number	Percent	Percent	Percent
G. lucida Sw. (shiny oysterwood)---------	Fla.	Leaves	2	0	.10	.05
	Fla.	Stems	2	0	.02	.01
Gyrotheca. See Lachnanthes.						
Habenaria (habenaria), ORCHIDACEAE.						
H. ciliaris (L.) R.Br. (yellow fringeorchid).	Fla., N.C.	Leaves	2	0	.06	.03
	N.C.	Whole	2	0	0	0
H. nivea (Nutt.) Spreng. (snowy habenaria).	Fla.	Whole	1	0		
H. odontopetala Reichenb.f.--------------	Fla.	Leaves	1	0		
	Fla.	Whole	1	0		
Habenaria sp.----------------------------	S.C.	Whole	1	.06		
Hamamelis (witchhazel), HAMAMELIDACEAE.						
H. virginiana L. (common witch-hazel).	Fla., Ga., N.J., S.C.	Leaves	8	0	0	0
	Fla.	Stems	1	.17		
	N.J.	Whole	1	.02		
Hamelia (hamelia), RUBIACEAE						
H. erecta. See H. patens.						
H. patens Jacq. (scarlet hamelia)--------	Fla.	Leaves	4	.59	3.55	1.99
	Fla.	Stems	4	0	.17	.06
Haploesthes. See Haplopappus.						
Haplopappus (goldenweed), COMPOSITAE.						
H. ciliatus (Nutt.) DC.------------------	Kans., Okla., Tex.	Three collections no test.				
H. divaricatus (Nutt.) Gray--------------	Fla., Ga., S.C.	Leaves	7	.40	2.73	1.16
	Ala.	Whole	1	.49		
H. phyllocephalus megacephalus (Nash) Hall.	Fla.	Leaves	4	.30	1.33	.94
	Fla.	Stems	4	0	.07	.02
	Fla.	Fruit	2	.06	.23	.14
	Fla.	?	1	Tr		
H. spinulosus (Pursh) DC. (iron-plant goldenweed).	Kans., N. Mex., Tex.	Whole	5	0	.91	.25
H. spinulosus glabberimus (Rydb.) Hall.	No information					
H. texanus Coult.------------------------	Tex.	Whole	1	.93		
H. venetus vernonioides (Nutt.) Hall (coast goldenweed).	U.P.	Whole	1	.12		
Haplopappus sp.--------------------------	U.P.	Whole	1	0		
Harrisia (applecactus), CACTACEAE.						
H. simpsonii Small-----------------------	Fla.	No test.				
Hedeoma (falsepennyroyal), LABIATAE.						
H. pulegioides (L.) Pers. (American falsepennyroyal).	N.J.	Leaves	1	Tr		
	Ga., N.J., W. Va.	Whole	3	0	.08	.05
Hedeoma sp.------------------------------	Tex.	Whole	1	0		

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
			Number	Percent	Percent	Percent
Hedera (ivy), ARALIACEAE.						
H. helix L. (English ivy)----------------	Fla.	Leaves	1	0		
	?	Whole	1	.42		
Hedyotis. See Oldenlandia.						
Helenium (sneezeweed), COMPOSITAE.						
H. autumnale L. (common sneezeweed).------	Fla., N.J., N.C., S.C., Va., W.Va.	Leaves	10	0	Tr	Tr
	Idaho, N.J., U.P.	Whole	3	0	.06	.02
H. incisum (Torr. & Gray) Wood-----------	Fla.	Whole	3	0	.02	.01
H. nudiflorum Nutt. (purplehead sneezeweed).	Tenn.	Leaves	1	.59		
H. tenuifolium Nutt. (bitter sneezeweed; bitterweed).	Fla.	Leaves	2	0	0	0
	Fla., N.C., Va.	Whole	4	0	0	0
Helenium sp.------------------------------	Ga., N.J., N.C.	Leaves	4	0	Tr	Tr
	Fla., Idaho, Iowa	Whole	3	0	0	0
Helianthella. See Phoebanthus:						
Helianthemum (sunrose), CISTACEAE.						
H. bicknellii. See H. majus						
H. canadense. See Crocanthemum canadense.						
H. corymbosum Michx.----------------------	Fla.	Leaves	2	0	.03	.02
	Fla.	Stems	2	0	.02	.01
	Fla.	Whole	3	0	0	0
H. majus (L.) BSP (frostweed sunrose).----	N.J.	Whole	1	0		
Helianthemum sp.-------------------------	Fla.	Leaves	1	0		
	Fla.	Whole	1	0		
	Fla.	?	3	0	0	0
Helianthus (sunflower), COMPOSITAE.						
H. agrestis Pollard-----------------------	Fla.	Leaves	1	2.90		
	Fla.	Whole	1	.59		
H. angustifolius L. (swamp sunflower).	Fla.	Leaves	2	0	.33	.16
	N.C., Va.	Whole	2	.43	1.40	.92
H. annuus L. (common sunflower)-----------	Fla., Kans.	Leaves	2	0	1.05	.52
	Colo., Idaho, Kans, Nebr., U.P.	Whole	20	0	.15	.01
H. argophyllus Torr. & Gray (silverleaf sunflower).	Fla.	Leaves	1	.93		
	Fla.	Whole	1	0		
H. atrorubens L. (darkeye sunflower). ----	N.C., S.C., Va.	Leaves	6	.15	1.07	.58
	Ga., N.C.	Whole	2	0	.73	.36
H. cumerifolius. See H. debilis						
H. debilis Nutt. (cucumberleaf sunflower).	Fla., Ga.	Leaves	7	.13	2.83	1.06
	Fla.	Stems	2	0	0	0
	Fla.	Fruit	1	0		
	Fla.	Whole	1	.37		
H. decapetalus L. (thinleaf sunflower).---	N.J., N.C.	Leaves	4	Tr	1.60	.40
	N.J.	?	1	Tr		
H. divaricatus L. (divaricate sunflower).	Ga., N.J., Va.	Leaves	4	0	1.51	.62
	?	Whole	1	.35		
	N.J.	?	3	Tr	3.62	1.21

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Helianthus (sunflower), COMPOSITAE.--Continued			Number	Percent	Percent	Percent
H. fascicularis Greene	Utah	Whole	1	.45		
H. giganteus L. (giant sunflower)	Va.	Leaves	2	1.06	1.08	1.07
	N.J.	Whole	2	.01	.09	.05
	N.J., Va.	?	9	Tr	2.25	1.36
H. heterophyllus Nutt.	Fla., S.C.	Whole	3	.13	1.65	.67
H. lenticularis Nutt.	U.P.	Leaves	1	.17		
	Colo., Kans., Nebr., U.P.	Whole	13	0	.45	.16
H. maximilianii Schrad. (Maximilian sunflower).	Kans., Nebr., Tex., U.P.	Whole	8	0	.79	.36
H. microcephalus Torr. & Gray (smallhead sunflower).	N.C.	Leaves	2	0	.72	.36
	Va.	Whole	1	0		
H. mollis Lam. (ashy sunflower)	Ala.	Leaves	1	.67		
	Okla.	Whole	1	.28		
	N.J.	?	1	Tr		
H. nuttallii Torr. & Gray	Colo., Nebr., Utah	Whole	3	0	.23	.15
H. occidentalis Riddell ? (fewleaf sunflower).	U.P.	Whole	1	.28		
H. petiolaris Nutt. (prairie sunflower).	Colo., Kans., Nebr., Tex.	Whole	17	0	.09	.01
H. radula (Pursh) Torr. & Gray	Fla.	Leaves	2	2.18	2.89	2.54
	Fla.	?	1	Tr		
H. strumosus L. (woodland sunflower).	Fla., Ga.	Leaves	2	.62	1.25	.94
H. tuberosus L. (jerusalemartichoke sunflower).	Fla., Ga., N.J., N.C.	Leaves	7	Tr	1.28	.39
	N.H., N.J.	Whole	3	.09	.27	.18
Helianthus sp.	Fla.	Leaves	20	0	2.14	.41
	Calif., Colo., Fla., Idaho, Kans., Minn., Mont., Nebr., N.C., Oreg., S.C., U.P., Utah, Va., Wash., Wyo., Okla.	Whole	56	0	1.57	.20
	Fla.	?	1	Tr	1.57	.20
Helichrysum (everlasting), COMPOSITAE.						
H. bracteatum Andr. (strawflower)	Fla.	Leaves	1	3.20		
	Fla.	Stems	1	.04		
	Fla.	Flowers	1	.03		
	N.J.	Whole	2	.09	.14	.12
Heliopsis (heliopsis), COMPOSITAE.						
H. helianthoides (L.) Sweet (sunflower heliopsis).	N.J.	Leaves	1	0		
H. minor (Hook.) Mohr	Ga.	Leaves	1	0		
H. scabra Dunal (rough heliopsis)	U.P.	Whole	1	0		
Heliopsis sp.	Kans., Nebr., U.P.	Whole	4	0	.13	.03

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Heliotropium (heliotrope), BORAGINACEAE.			Number	Percent	Percent	Percent
H. *amplexicaule* Vahl	Fla.	Leaves	1	0		
H. *currassavicum* L. ? (salt heliotrope).	Oreg.	Whole	1	0		
H. *indicum* L.	Ga.	Leaves	1	0		
H. *leavenworthii* Torr.	Fla.	Whole	3	0	0	0
H. *parviflorum* L.	Fla.	Leaves	4	0	.05	.01
	Fla.	Stems	2	0	0	0
H. *polyphyllum* Lehm.	Fla.	Leaves	2	0	0	0
	Fla.	Stems	1	.97		
	Fla.	Stem bark	1	0		
	Fla.	Root bark	1	0		
	Fla.	Whole	7	0	.02	Tr
Heliotropium sp.	Fla.	Leaves	2	0	.02	.01
	Calif.	Whole	1	0		
	Fla.	?	3	0	0	0
Hemerocallis (daylily), LILIACEAE.						
H. *fulva* L. (lemon daylily)	Fla., N.J.	Whole	2	0	0	0
Hepatica (hepatica), RANUNCULACEAE.						
H. *acutiloba* DC. (sharplobe hepatica).	N.C.	Leaves	1	0		
H. *americana* Ker. (roundlobe hepatica).	W.Va.	Whole	1	0		
Hesperis (rocket), CRUCIFERAE.						
H. *matronalis* L. (dames rocket)	N.J.	Leaves	1	0		
Heterotheca, COMPOSITAE.						
H. *grandiflora* Nutt.	Calif.	Whole	1	.17		
H. *subaxillaris* (Lam.) Britt. & Rose.	Fla., Ga., N.C., S.C.					
	Fla.	Stems	4	0	.12	.03
	Fla.	Root bark	1	0		
	Calif.	Whole	1	.71		
	Fla.	?	2	.57	1.28	.92
Heuchera (alumroot), SAXIFRAGACEAE.						
Heuchera sp.	N.C.	Leaves	1	0		
	Ga., N.J., S.C.,	Whole	6	0	0	0
	Va., W.Va.	Leaves	20	.15	2.27	.86
Hibiscus (hibiscus; rosemallow), MALVACEAE.						
H. *aculeatus* Walt. (rough rosemallow).	Fla., S.C.	Leaves	3	0	0	0
H. *coccineus* Walt. (scarlet rosemallow).	Ala., Fla.	Leaves	2	0	1.08	.54
H. *grandiflorus* Michx. (great rosemallow).	Fla.	Leaves	3	0	.09	.03
	Fla.	Stems	2	0	0	0
	Fla.	Whole	1	0		
H. *incanus* Wendl.	Fla., Ga.	Leaves	3	0	.05	.02

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Hibiscus (hibiscus; rosemallow) MALVACEAE.--Continued			Number	Percent	Percent	Percent
H. manihot L. (sunset hibiscus)	Fla.	Whole	1	0		
H. palustris L. (common rosemallow)	N.J., N.C.	Leaves	5	0	0	0
H. rosa-sinensis L. (Chinese hibiscus).	Fla.	Leaves	3	.44	.55	.50
	Fla.	Stems	3	.12	.15	.13
H. schizopetalus Hook.f. (fringed hibiscus).	Fla.	Leaves	1	0		
H. syriacus L. (shrubalthea)	Fla., Ga.	Leaves	2	0	0	0
H. tiliaceus L. (linden hibiscus)	Fla.	Leaves	1	.33		
H. trionum L. (flowerofanhour)	N.J., Kans., Va.	Whole	4	0	.23	.08
Hibiscus sp.	Fla., N.J., S.C.	Leaves	4	0	0	0
	Fla.	Whole	1	0		
Hicoria. See Carya.						
Hieracium (hawkweed), COMPOSITAE.						
H. auranticum L. ? (orange hawkweed).	Mass.	No test.				
H. canadense Michx. (Canada hawkweed).	N.J.	Leaves	2	Tr	Tr	Tr
	Mass.	Whole	1	.15		
H. florentinum All. (kingdevil hawkweed).	N.J.	Leaves	1	Tr		
H. gronovii L.	Fla., N.C., S.C., Va.	Leaves	10	0	.87	.10
	N.C., S.C.	Whole	2	0	.06	.03
H. longipilum Torr.	Okla.	Whole	1	.14		
H. paniculatum L. (panicled hawkweed).	Ga., N.J.	Leaves	2	0	Tr	Tr
	N.C.	Whole	1	0		
	N.J.	?	1	Tr		
H. pilosella L. (mouseear hawkweed).	Va.	Whole	1	0		
H. pratense Tausch. ? (field hawkweed).	W. Va.	No test.				
H. scabrum Michx. (rough hawkweed).	N.J., N.C., W. Va.	Leaves	6	0	.18	.03
	N.J.	Whole	2	.09	.13	.11
H. venosum L. (poorrobin hawkweed)	Mass., W. Va.	No test.				
Hieracium sp.	Fla., Ga., N.J.	Leaves	5	0	.09	.02
	Fla., S.C., Va., Wash.	Whole	4	0	0	0
	Fla.	?	2	0	0	0
Hippocratea, HIPPOCRATEACEAE.						
H. volubilis L.	Fla.	Leaves	4	1.10	3.55	2.31
	Fla.	Stems	4	.28	.57	.42
	Fla.	?	1	2.42		
Hippomane, EUPHORBIACEAE.						
H. manicella L. (manchineel)	Fla.	Leaves	2	.02	.93	.48
	Fla.	Stems	2	0	.21	.10
	Fla.	Whole	1	.07		

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Holodiscus (rockspirea), ROSACEAE.			Number	Percent	Percent	Percent
Holodiscus sp.	Oreg.	Whole	1	0		
Hordeum (barley), GRAMINEAE.						
H. jubatum var. *caespitosum* (Scribn.) Hitchc. (bobtail barley).	Idaho, U.P.	Whole	2	0	0	0
Hosta (plantainlily), LILIACEAE.						
H. caerulea Tratt. (blue plantainlily)	N.J.	Leaves	1	0		
Houstonia (bluets), RUBIACEAE.						
H. angustifolia Michx.	Fla., Tex.	Whole	2	.19	.99	.59
H. filifolia (A.Gray) Small	Fla.	Whole	2	.02	.37	.20
H. longifolia Gaertn. (longleaf bluets).	Ga.	Whole	1	.14		
	Fla.	?	1	0		
H. procubens. See *H. rotundifolia*						
H. purpurea L. (purple bluets)	Ga., Va.	Whole	2	0	.03	.02
H. rotundifolia Michx.	Fla.	Whole	1	1.25		
Houstonia sp.	Fla.	?	1	Tr		
Hudsonia (beachheather), CISTACEAE.						
H. ericoides L.	N.J.	Whole	1	0		
Humulus (hop), MORACEAE.						
H. japonicus Sieb. & Zucc. (Japanese hop).	Ga., N.J.	Leaves	2	0	0	0
H. lupulus L. (common hop)	Nebr., U.P.	Whole	2	0	0	0
Humulus sp.	Nebr.	Whole	1	0		
Hydrangea (hydrangea), SAXIFRAGACEAE.						
H. arborescens L. (smooth hydrangea).	Ga., Va.	Leaves	2	0	0	0
H. opuloides Koch	Fla.	Leaves	1	0		
H. paniculata Sieb. (panicle hydrangea).	Ga.	Leaves	1	2.07		
H. quercifolia Bartr. (oakleaf hydrangea).	Fla., Ga.	Leaves	2	0	0	0
H. radiata Walt. (silverleaf hydrangea).	S.C.	Leaves	1	0		
Hydrocotyle (pennywort), UMBELLIFERAE.						
H. bonariensis Lam. (largeleaf pennywort).	Fla.	Whole	1	0		
H. repanda. See *Centella repanda*						
H. umbellata L. ?	Fla.	Whole	1	0		

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Hydrophyllum (waterleaf), HYDROPHYLLACEAE.			Number	Percent	Percent	Percent
H. virginianum L. ? (Virginia waterleaf).	N.J.	Whole	1	.17		
Hydrotrida, SCROPHULARIACEAE.						
H. caroliniana (Walt.) Small (Carolina boghyssop).	Fla.	Whole	3	.03	.85	.56
Hymenocallis (hymenocallis), AMARYLLIDACEAE.						
H. occidentalis (Le Conte) Kunth (inland hymenocallis).	Tenn.	Whole	1	0		
Hymenocallis sp.	Fla.	Whole	1	0		
Hymenopappus (hymenopappus), COMPOSITAE.						
Hymenopappus sp.	N. Mex., Tex.	Whole	2	0	.33	.17
Hymenoxys. See Actinea.						
Hyoscyamus (henbane), SOLANACEAE.						
H. niger L. (black henbane)	Utah	Whole	1	0		
Hypericum (St. Johnswort), HYPERICACEAE.						
H. acutifolium Ell.	Ga.	Whole	1	0		
H. ascyron L. (giant St. Johnswort).	N.J.	Leaves	1	0		
H. aspalathoides Willd.	Fla.	Whole	2	0	0	0
H. aureum. See H. frondosum						
H. calycinum L. (Aaronsbeard St. Johnswort).	N.J.	Whole	1	.04		
H. densiflorum Pursh (dense St. Johnswort).	Ga., W. Va.	Leaves	2	0	0	0
	N.J.	Whole	1	0		
H. drummondii Torr. & Gray	Tenn.	Leaves	1	0		
H. fasciculatum Lam. (sandbush St. Johnswort).	Ala., Fla.	Leaves	5	0	0	0
	Fla.	Stems	2	0	0	0
	Fla.	Whole	3	0	0	0
H. frondosum Michx. (golden St. Johnswort).	Ala., Ga.	Leaves	1	.01		
	Calif.	Whole	1	.01		
H. galioides Lam. (bedstraw St. Johnswort).	S.C.	Whole	1	0		
H. gentianoides (L.) BSP. (pineweed St. Johnswort).	N.J.	Leaves	1	0		
	Fla., N.J., N.C.	Whole	7	0	0	0
H. maculatum. See H. punctatum						
H. moserianum Andr.	N.J.	Whole	1	.01		
H. mutilum L.	Fla.	Leaves	1	0		
	Fla., N.J., N.C.	Whole	5	0	0	0
H. myrtifolium Lam.	Fla.	Leaves	5	0	.20	.04
	Fla.	Stems	3	0	.06	.04
	Fla.	Whole	3	0	.21	.07

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Hypericum (St. Johnswort), HYPERICACEAE--Continued			Number	Percent	Percent	Percent
H. opacum Torr. & Gray	Fla.	Leaves	4	0	0	0
	Fla.	Whole	2	0	.04	.02
H. patulum Thunb. (goldencup St. Johnswort)	Calif.	Whole	1	.09		
H. perforatum L. (common St. Johnswort).	N.J.	Leaves	2	0	0	0
	N.J., Oreg.	Whole	2	0	0	0
H. petiolatum Walt.	Ga., S.C.	Leaves	2	0	.02	.01
H. prolificum L. (shrubby St. Johnswort).	N.J., N.C.	Leaves	2	0	0	0
H. punctatum Lam. (spotted St. Johnswort).	Fla., Ga., N.C.	Leaves	3	0	0	0
	N.J., N.C.	Whole	2	0	0	0
H. virginicum L. (marsh St. Johnswort).	Fla., N.J.	Leaves	4	0	Tr	Tr
	Fla., N.C.	Whole	3	0	0	0
	Fla.	?	1	0		
Hypericum sp.	Fla., Ga., Miss.	Leaves	7	0	0	0
	Fla., Ga., Idaho, N.J., S.C., Wash.	Whole	8	0	.20	.02
	Fla.	?	4	0	0	0
Hyptis (bushmint), LABIATAE.						
H. mutabilis (A. Rich.) Briq.	Fla.	Leaves	4	.14	1.09	.58
H. radiata Willd.	Fla., S.C.	Leaves	18	0	2.17	.90
	Fla.	Stems	5	0	0	0
	Fla., S.C.	Whole	4	.02	.61	.26
	Fla.	?	2	Tr	1.42	.71
Hyptis sp.	Fla.	Leaves	2	Tr	1.48	.74
Ibidium. See Spiranthes.						
Icacorea. See Ardisia.						
Ichthyomethia. See Piscidia.						
Ilex (holly), AQUIFOLIACEAE						
I. ambigua (Michx.) Torr.	Fla., S.C.	Leaves	4	0	.09	.02
	Fla.	Whole	1	0		
I. cassine L. (dahoon)	Fla.	Leaves	19	0	.93	.38
	Fla.	Stems	10	0	.03	.01
	Fla.	Whole	1	0		
	Fla.	?	1	0		
I. cassine myrtifolia (Walt.) Sarg. (myrtle dahoon)	Fla.	Leaves	1	.27		
	Fla.	Stems	1	0		
I. coriacea (Pursh) Chapm.	Fla., N.C.	Leaves	3	0	.23	.11
I. decidua Walt. (possumhaw)	Fla., La., N.C., S.C.	Leaves	6	0	.24	.04
I. glabra (L.) A. Gray (inkberry)	Fla., Ga., La., N.J., N.C., S.C.	Leaves	21	0	.21	.04
	Fla.	Stems	4	0	.07	.02
	Fla.	?	2	0	Tr	Tr

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Ilex (holly), AQUIFOLIACEAE--Continued			Number	Percent	Percent	Percent
I. krugiana Loes. (tawnyberry holly)	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
I. montana A. Gray (mountain winterberry).	N.C.	Leaves	1	0		
	N.J.	Whole	1	.03		
I. myrtifolia. See *I. cassine myrtifolia*.						
I. opaca Ait. (American holly)	Ala., Fla., N.C., S.C., Va.	Leaves	16	0	2.80	.35
I. verticillata (L.) A. Gray (common winterberry).	N.J.	Leaves	7	0	Tr	Tr
I. vomitoria Ait. (yaupon)	Fla., La., N.C.	Leaves	9	0	1.28	.26
	Fla.	Stems	1	0		
	Fla.	?	1	Tr		
Ilex sp.	Fla., La., Miss., S.C., Va.	Leaves	8	0	.85	.14
	Fla.	Root bark	1	0		
	Fla.	?	2	0	0	0
Illicium (anisetree), MAGNOLIACEAE.						
I. floridanum Ellis (Florida anisetree)	Fla.	Leaves	1	0		
Ilysanthes. See *Lindernia*.						
Impatiens (snapweed), BALSAMINACEAE.						
I. balsamina L. (garden balsam)	N.C.	Leaves	1	1.20		
I. biflora Walt. (spotted snapweed)	Ga., N.J., N.C.	Leaves	4	.58	1.56	1.02
	N.J., Va., W.Va.	Whole	6	0	.68	.26
I. pallida Nutt. (pale snapweed)	Ga.	Leaves	1	.28		
Indigofera (indigo), LEGUMINOSAE.						
I. caroliniana Mill. (Carolina indigo)	Fla., Ga., N.C., S.C.	Leaves	8	0	0	0
	Fla.	Whole	2	0	0	0
I. miniata Ort.	Fla.	Whole	2	0	.69	.34
I. suffruticosa Mill. (anil indigo)	Fla.	Whole	1	0		
Indigofera sp.	Fla.	Leaves	2	0	0	0
	Fla.	Bark	1	Tr		
	Fla.	?	1	0		
Inula (inula), COMPOSITAE.						
I. helenium L.	N.J.	Leaves	1	2.79		
	N.J.	?	4	1.68	3.29	2.43
Ipomoea (morningglory), CONVOLVULACEAE.						
I. batatas (L.) Lam. (sweetpotato)	Fla.	Leaves	1	.04		
	Fla.	Whole	2	0	Tr	Tr
I. cathartica Poir.	Fla.	Whole	7	0	.03	.01
I. coccinea. See *Quamoclit coccinea*.						

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Ipomoea (morningglory), CONVOLVULACEAE--Continued			Number	Percent	Percent	Percent
I. dissecta Jacq.	Fla.	Leaves	2	0	0	0
	Fla.	Whole	2	0	.16	.08
I. hederacea Jacq. (ivyleaf morningglory).	W. Va., ?	No test.				
I. macrorhiza Michx.	Fla.	Whole	2	0	.07	.04
I. pandurata (L.) Meyer (bigroot morningglory).	Fla., S.C.	Leaves	3	0	0	0
	Fla., Ga.	Whole	4	0	0	0
I. Pes-caprae (L.) Sweet (soilbind morningglory).	Fla.	Leaves	8	0	.05	Tr
	Fla.	Stems	3	0	0	0
	Fla.	Whole	4	0	0	0
	Fla.	?	3	0	0	0
I. purpurea (L.) Roth ? (common morningglory).	Fla.	Whole	4	0	.03	.01
I. sagittata Cav.	Fla.	Whole	4	0	.03	.01
	Fla., N.C.		3	No test		
I. stolonifera (Cyrill.) Poir.	Fla.	Leaves	2	0	0	0
	Fla.	Whole	2	0	0	0
Ipomoea sp.	Fla., Tenn.	Leaves	3	0	1.38	.59
	Fla.	Stems	1	0		
	Fla., N.Mex.	Whole	3	.05	1.21	.51
	Fla.	?	3	0	0	0
Iresine (bloodleaf), AMARANTHACEAE.						
I. celosia L. (judasbush bloodleaf).	Fla.	Leaves	4	0	.05	.01
	Fla.	Stems	3	0	0	0
	Fla.	Whole	6	0	.32	.05
	Fla.	?	1	0		
I. vermicularis. See Philoxerus vermicularis.						
Iresine sp.	Fla.	Leaves	1	0		
	Fla.	?	4	0	Tr	Tr
Iris (iris), IRIDACEAE.						
I. cristata Ait. (crested iris)	N.C.	Leaves	1	0		
I. savannarum Small (prairie iris).	Fla.	Whole	2	0	0	0
I. tripetala Walt. (bay iris)	Fla.	Whole	1	0		
I. verna L. (vernal iris)	S.C.	Leaves	1	0		
I. versicolor L. (blueflag iris)	N.J.	Leaves	1	0		
Iris sp.	Fla., N.J.	Whole	2	0	.15	.08
	Fla.	?	1	0		
Isanthus (fluxweed; falsepennyroyal), LABIATAE.						
I. brachiatus (L.) B.S.P. (fluxweed).	Ga., Va.	Whole	2	0	0	0
Isnardia, ONAGRACEAE.						
I. palustris L. (marshpurslane)	Fla., N.J.	Whole	2	0	.47	.24
I. repens. See Ludwigia natans						

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Isotria. See *Pogonia*						
Itea (sweetspire), SAXIFRAGACEAE.			Number	Percent	Percent	Percent
I. *virginica* L. (virginia sweetspire).	Fla., Ga., N.C.	Leaves	15	0	.49	.03
	Fla.	Stems	3	0	.02	.01
	Fla.	?	1	0		
Iva (sumpweed), COMPOSITAE.						
I. *angustifolia* Nutt. (narrowleaf sumpweed).	Fla.	No test				
I. *axillaria* Pursh (poverty sumpweed).	Idaho, Mont., U.P., Utah	Whole	16	0	.23	.97
I. *ciliata* Willd. (seacoast sumpweed)	Tex.	Whole	1	.06		
I. *frutescens* L. (bigleaf sumpweed).	Fla., La., N.C.	Leaves	11	0	2.68	1.01
	Fla.	Stems	3	0	.11	.05
	Fla.	?	1	.71		
I. *imbricata* Walt.	Fla.	Leaves	5	.75	1.77	1.08
	Fla.	Stems	2	0	0	0
I. *xanthifolia* Nutt. (rag sumpweed)	Colo., Nebr., U.P.	Leaves	4	0	.30	.18
	Colo., Idaho, Kans., Nebr., Oreg., U.P., Utah, Wyo.	Whole	47	0	.24	.02
Iva sp.	Fla.	Leaves	2	Tr	2.85	1.42
	Colo.	Whole	1	0		
	Fla.	?	3	Tr	Tr	Tr
Ixora (ixora), RUBIACEAE.						
I. *coccinea* L. (jungleflame ixora).	Fla.	Leaves	1	1.55		
Jacobinia, See *Pachystachys*.						
Jacquemontia, CONVOLVULACEAE.						
J. *curtissii* Peter	Fla.	Whole	5	0	.05	.01
J. *tamnifolia* (L.) Griseb.	Ala.	Leaves	1	0		
Jacquinia (jacquinia), THEOPHRASTACEAE.						
J. *keyensis* Mez. (joewood jacquinia)	Fla.	Leaves	5	0	Tr	Tr
	Fla.	Stems	4	0	0	0
	Fla.	Flowers	1	0		
	Fla.	Fruit	1	0		
Jacquinia sp.	Fla.	?	1	0		
Jasminum (jasmine), OLEACEAE.						
J. grandiflorum. See *J*. *officinale* *grandiflorum*.						
J. *humile* L. (Italian jasmine)	Fla.	Leaves	1	0		
J. *multiflorum* Andr. (furry jasmine)	Fla.	Leaves	1	.25		
	Fla.	Stems	1	.14		
J. *officinale* *grandiflorum* (L.)	Ga.	Leaves	1	0		
J. *sambac* Sol. (Arabian jasmine)	Fla.	Whole	1	0		
Jasminum sp.	Fla., Ga.	Leaves	3	0	.13	.06
	Fla.	Stems	2	0	.08	.04

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Jatropha (nettlespurge), EUPHORBIACEAE.			Number	Percent	Percent	Percent
J. spathulata (Ortega) Muell. Arg.--------	?	Whole	1	.04		
J. stimulosa. See Cnidoscolus, stimulosus.						
J. texana. See Cnidoscolus texanus.						
Juglans (walnut), JUGLANDACEAE.						
J. cinera L. ? (butternut)----------------	N.J., N.C.	Leaves	2	0	0	0
Juglans sp.--------------------------------	N.C.	Leaves	1	0		
Juncus (rush), JUNCACEAE.						
J. effusus L. (common rush)---------------	N.J.	Whole	1	.07		
	Fla.	?	1	0		
J. polycephalus Michx.--------------------	Fla.	Whole	1	0		
J. roemerianus Schult. (needlegrass rush).	Fla.	Whole	1	0		
Juncus sp.--------------------------------	Fla.	Leaves	1	0		
	Fla., N.C., S.C.	Whole	5	0	0	0
	Fla.	?	1	0		
Juniperus (juniper), CUPRESSACEAE.						
J. virginiana L. (eastern redcedar)-------	Fla.	Leaves	1	0		
	Fla.	Whole	1	0		
Juniperus sp.-----------------------------	Fla., U.P.	Whole	4	0	0	0
Jussiaea (waterprimrose), ONAGRACEAE.						
J. peruviana L. (Peru waterprimrose)------	Fla.	Leaves	7	.77	3.42	1.44
	Fla.	Stems	3	0	0	0
	Fla.	Whole	1	.95		
	Fla.	?	1	Tr		
J. scabra Willd.--------------------------	Fla.	Leaves	2	.07	.80	.44
	Fla.	Stems	1	0		
	Fla.	Whole	1	.80		
Jussiaea sp.------------------------------	Fla.	Leaves	4	Tr	1.12	.46
Justicia (justicia), ACANTHACEAE.						
J. crassifolia (Chapm.) Small-------------	Fla.	Whole	1	1.27		
J. ovata (Walt.) Lindau-------------------	Ga.	Leaves	1	.64		
Kalanchoe (kalanchoe), CRASSULACEAE.						
K. pinnata (Lam.) Pers.------------------- (airplant kalanchoe).	Fla.	Leaves	1	.13		
	Fla.	Stems	1	.11		
	Fla.	?	1	0		
Kalanchoe sp.-----------------------------	Fla.	Leaves	1	0		
	Fla.	Bark	1	0		
Kallstroemia (caltrop), ZYGOPHYLLACEAE.						
K. hirsutissima Vail (hairy caltrop)------	Tex.	Whole	1	0		
Kallstroemia sp.--------------------------	Colo.	Whole	2	0	0	0

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Kalmia (kalmia), ERICACEAE.			Number	Percent	Percent	Percent
K. angustifolia L. (lambkill kalmia).	N.J., N.C.	Leaves	6	0	0	0
	N.J.	Whole	1	.03		
K. hirsuta Walt. (sandhill kalmia)	Fla.	Leaves	1	0		
	Fla.	Whole	2	0	0	0
K. latifolia L. (mountainlaurel kalmia).	Ga., N.J., S.C., Va., W. Va.	Leaves	8	0	0	0
Kneiffia. See *Oenothera*.						
Kochia (summercypress), CHENOPODIACEAE.						
K. scoparia trichophylla Bailey	Ala.	Whole	1	0		
Kochia sp.	Nebr.	Leaves	1	0		
	Colo., Kans., Nebr., Oreg., U.P.	Whole	60	0	0	0
Koellia See *Pycnanthemum*.						
Koelreuteria (goldraintree), SAPINDACEAE.						
K. paniculata Laxm. (panicled goldraintree).	Ga.	Leaves	1	0		
Kosteletzkya (saltmarshmallow), MALVACEAE.						
K. althaeifolia (Chapm.) A. Gray (althea saltmarshmallow).	Fla.	Leaves	4	0	.09	.02
	Fla.	Stems	2	0	.06	.03
K. virginica (L.) A. Gray (Virginia saltmarshmallow).	Fla.	Leaves	5	0	.08	.03
	Fla.	Stems	2	0	.03	.02
Kosteletzkya sp.	Fla.	?	1	0		
Krauhnia. See *Wisteria*.						
Krigia (dwarfdandelion), COMPOSITAE.						
K. virginica (L.) Willd. (Virginia dwarfdandelion).	Mass.	No test.				
Krugiodendron, RHAMNACEAE.						
K. ferreum (Vahl) Urban (leadwood)	Fla.	Leaves	1	0		
Kuhnia, COMPOSITAE						
K. eupatorioides L.	Va.	Leaves	1	0		
K. glutinosa Ell.	Colo., Kans.	Whole	2	0	.10	.05
Kuhnia sp.	Colo., Nebr., U.P.	Whole	10	0	.02	Tr
Lachnanthes (redroot), HAEMODORACEAE.						
L. tinctoria (Walt.) Ell. (blood redroot).	Fla.	Leaves	1	0		
	Fla., N.C.	Whole	4	0	0	0
Lacinaria. See *Liatris*.						

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Lactuca (lettuce), COMPOSITAE.			Number	Percent	Percent	Percent
L. canadensis L. (Canada lettuce)	Fla., N.J., N.C., S.C., Va.	Leaves	15	0	.25	.04
	Fla., Ga., N.J., Va.	Whole	7	0	1.08	.22
	N.J.	?	1	Tr		
L. canadensis L. var.	Ga., S.C., Va.	Leaves	3	0	.10	.05
	N.J.	Whole	1	.13		
	N.C.		1	No test		
L. canadensis L. ?	N.C.	Leaves	1	.21		
	N.J.	Whole	1	.40		
L. floridana (L.) Gaertn.	N.C., Va.	Leaves	3	0	.20	.07
	Fla.	Whole	1	0		
L. graminifolia Michx. (grass-leaf lettuce).	Fla.	Leaves	1	.17		
	Fla.	Whole	2	0	.06	.03
	Fla.	?	1	0		
L. intybacea Jacq.	Fla.	Whole	1	.22		
L. saligna L.	Va.	Whole	1	0		
L. sativa L. (garden lettuce)	Fla.	Leaves	2	.17	.18	.18
	Fla.	Stems	2	.13	.17	.15
	Fla.	Flowers	2	.07	.09	.08
L. serriola L. (prickly lettuce)	N.J.	Leaves	1	Tr		
	Colo., Nebr., N.J., N.C., U.P., Utah, Va.	Whole	15	0	.24	.03
	S. Dak.	?	1	Tr		
L. spicata (Lam.) Hitch. (blue lettuce).	N.J., N.C., Va., W. Va.	Leaves	7	0	.67	.11
	N.J.	Whole	2	.08	.52	.30
	N.J.	?	1	Tr		
Lactuca sp.	Fla., Ga., Kans., N.J., S.C.	Leaves	14	0	.25	.03
	Calif., Fla., Ga., Idaho, Kans., Nebr., N.J., Okla., Oreg., S.C., U.P., Utah, Wash.	Whole	74	0	.39	.02
	N.J.	?	2	Tr	3.85	1.92
Lagerstroemia (crapemyrtle), LYTHRACEAE.						
L. indica L. (common crapemyrtle)	Fla., Ga.	Leaves	3	0	0	0
Lagerstroemia sp.	Fla.	?	2	0	0	0
Laguncularia (falsemangrove), COMBRETACEAE.						
L. racemosa Gaertn.f. (false-mangrove).	Fla.	Leaves	6	.70	2.17	1.56
	Fla.	Stems	3	0	.09	.03
	Fla.	?	1	1.71		
Lantana (lantana), VERBENACEAE.						
L. camara L. (common lantana)	Fla.	Leaves	5	0	.34	.18
	Fla.	Stems	2	Tr	.02	.01
	Fla.	Flowers	1	.21		
	Fla.	Whole	1	.08		
L. depressa Small	Fla.	Leaves	1	.05		
	Fla.	Stems	1	0		

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Lantana (lantana), VERBENACEAE.--Continued			Number	Percent	Percent	Percent
L. involucrata L.------------------------	Fla.	Leaves	7	0	.73	.40
	Fla.	Stems	4	0	.03	.01
	Fla.	Whole	1	.17		
	Fla.	?	2	.43	.57	.50
L. ovatifolium Britt.--------------------	Fla.	Leaves	10	0	2.22	.43
	Fla.	Stems	3	0	0	0
	Fla.	?	1	.43		
L. sellowiana Link & Otto (trailing lantana).	Fla.	Leaves	1	.05		
	Fla.	Whole	1	.13		
Lantana sp.------------------------------	Fla., Tex.	Leaves	3	Tr	.47	.25
	Fla.	Stems	1	.03		
	Fla.	?	1	0		
Laportea (woodnettle), URTICACEAE.						
L. canadensis (L.) Gaud. (Canada woodnettle).	N.J.	Leaves	2	0	0	0
	Va.	Whole	1	0		
Lappula (stickseed), BORAGINACEAE.						
Lappula sp.------------------------------	U.P., Wyo.	Whole	2	0	0	0
Larrea (creosotebush), ZYGOPHYLLACEAE.						
L. tridentata (DC.) Coville (Coville creosotebush).	Ariz., Nev.	Whole	2	.20	.27	.24
Larrea sp.-------------------------------	Tex.	Leaves	1	.56		
	Tex.	Stems	1	.05		
	Nev., U.P.	Whole	4	0	0	0
Lasiacis (tibisee), GRAMINEAE.						
L. divaricata (L.) Hitchc. (Florida tibisee).	Fla.	Whole	2	0	.41	.20
Lathyrus (peavine), LEGUMINOSAE.						
L. latifolius L. (perennial peavine).	Ga., N.J.	Leaves	2	0	0	0
Lathyrus sp.-----------------------------	Kans.	Whole	1	0		
Lechea (pinweed), CISTACEAE						
L. cernua Small--------------------------	Fla.	Leaves	1	.29		
	Fla.	Stems	1	0		
	Fla.	Whole	3	0	0	0
L. intermedia Leggett--------------------	N.J.	Whole	2	0	.04	.02
L. leggettii Britt. & Hollick ?----------	Fla.	Whole	1	0		
L. minor L. ?----------------------------	S.C.	Whole	1	0		
L. racemulosa Lam.-----------------------	N.J.	Whole	1	0		
L. tenuifolia Michx. ?-------------------	Fla.	Whole	1	0		
L. villosa Ell. (hairy pinweed)----------	Fla., N.J.	Leaves	2	0	0	0
	Fla., N.J.	Whole	4	0	.09	.02
Lechea sp.-------------------------------	Fla.	Leaves	6	0	0	0
	Fla.	Stems	1	0		
	Fla.	Whole	5	0	0	0
	Fla.	?	3	0	0	0

TABLE 1.--Continued

Plants[1]	Collected in[2, 3]	Laboratory test for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
			Number	Percent	Percent	Percent
Leonotis (lion sear), LABIATAE.						
L. nepatifolia R. Br.---------------------	Fla.	Leaves	2	0	Tr	Tr
Leontodon (hawkbit), COMPOSITAE.						
L. autumnalis L. (fall hawkbit)-----------	Mass.	No test				
L. erythrospermum. See *Taraxacum laevigatum*.						
L. taraxacum. See *Taraxacum officinale*.						
Leonurus (motherwort), LABIATAE.						
L. cardiaca L. (common motherwort)-------	N.J.	Leaves	2	0	Tr	Tr
	N.J., N.C.	Whole	2	0	.13	.06
L. sibiricus L. (Siberian motherwort)----	Fla.	Leaves	1	.63		
Leonurus sp.----------------------------	Fla.	?	1	Tr		
Lepadena marginata. See *Euphorbia marginata*.						
Lepargyrea. See *Shepherdia*.						
Lepidium (pepperweed), CRUCIFERAE.						
L. draba. See *Cardaria draba*.						
L. perfoliatum L. (clasping pepperweed)--	Idaho, Utah, U.P.	Whole	6	0	0	0
L. virginicum L. (Virginia pepperweed)---	N.J.	Leaves	1	0		
	Fla., N.J.	Whole	4	0	.21	.08
Lepidium sp.----------------------------	N.J.	Leaves	2	0	Tr	Tr
	Idaho, U.P.	Whole	4	0	0	0
	Fla.	?	2	0	0	0
Leptandra virginica. See *Veronicastrum virginicum*.						
Leptilon. See *Erigeron*.						
Leptochloa (sprangletop), GRAMINEAE.						
L. fascicularia (Lam.) A. Gray (bearded sprangletop).	U.P.	Whole	1	0		
Leptoglottis. See *Schrankia*.						
Lespedeza (lespedeza), LEGUMINOSAE.						
L. angustifolia (Pursh) Ell.------------	N.J.	Whole	1	0		
L. capitata Michx. (roundhead lespedeza).	Ala., Fla., N.J., N.C., U.P., Va.	Leaves	9	0	.33	.05
	Kans., N.J., U.P.	Whole	8	0	.11	.03
L. frutescens. See *L. intermedia*						
L. *hirta* (L.) Hornem. (hairy lespedeza)--	Fla., Ga., N.C., S.C., Va., W. Va.	Leaves	17	0	Tr	Tr
	N.J.	Whole	1	.03		
L. intermedia (S. Wats.) Britt. (wand lespedeza).	Fla., S.C.	Leaves	3	0	0	0
	S.C.	Whole	1	0		

TABLE 1.--Continued

Plants[1]	Collected in[2] [3]	Laboratory test for rubber				
		Part tested[4] [5]	Tests	Low	High	Mean
Lespedeza (lespedeza), LEGUMINOSAE.--Continued			Number	Percent	Percent	Percent
L. procumbens Michx. (trailing lespedeza)-	Ga.	Leaves	1	0		
	Ga.	Whole	1	0		
L. repens (L.) Bart. (creeping lespedeza)-	Ga.	Leaves	2	0	0	0
L. striata (Thunb.) Hook. & Arn. (common lespedeza).	Fla., N.C., Tenn., Va.	Whole	7	0	0	0
L. violacea (L.) Pers. (violet lespedeza).	Ala., Ga.	Leaves	2	0	0	0
	N.C., W. Va.	Whole	2	0	0	0
L. virginica (L.) Britt. (Slender lespedeza).	Ga., N.C., Va.	Leaves	5	0	0	0
	N.J., S.C.	Whole	2	0	0	0
Lespedeza sp.----------------------------	Ga., N.J., S.C., W. Va.	Leaves	4	0	0	0
	N.C.	Whole	2	0	0	0
	Fla.	?	1	0		
Lesquerella (bladderpod), CRUCIFERAE.						
Lesquerella sp.---------------------------	Tex.	Whole	1	0		
Leucophyllum (silverleaf), SCROPHULARIACEAE.						
Leucophyllum sp.--------------------------	Tex.	Leaves	1	0		
Leucothoe (leucothoe), ERICACEAE.						
L. axillaris (Lam.) D. Don. (coast leucothoe).	Ala., N.C.	Leaves	2	0	0	0
L. catesbaei (Walt.) A. Gray (drooping leucothoe).	Ga.	Leaves	1	0		
L. racemosa (L.) A. Gray (sweetbells leucothoe).	Fla., N.J., N.C.	Leaves	7	0	Tr	Tr
Liatris (gayfeather), COMPOSITAE.						
L. chapmanii Torr. & Gray (Chapman gayfeather).	Fla.	Leaves	1	.39		
L. elegans Willd. (pinkscale gayfeather)--	Ala., S.C.	Leaves	2	.27	.83	.55
L. graminifolia (Walt.) Pursh (grassleaf gayfeather).	Va.	Whole	1	0		
L. pauciflora Pursh-----------------------	Fla.	Whole	1	.06		
L. punctata Hook. (dotted gayfeather)-----	Colo., Kans., Nebr., Tex., U.P.	Whole	8	0	.79	.21
L. pycnostachya Michx. (Kansas gayfeather).	Okla.	Whole	1	.41		
L. scariosa (L.) Willd. (tall gayfeather)-	Ga.	Leaves	2	.13	.31	.22
	Ga.	Flowers	1	.17		
	Ga.	Whole	1	.15		
L. spicata (L.) Willd. (spike gayfeather)-	Fla., Ga., N.J.	Leaves	3	Tr	1.18	.73
	Ga., Nebr., N.C., U.P.	Whole	7	0	1.53	.60
	N.J.	?	3	1.56	2.39	2.07

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4 5]	Tests	Low	High	Mean
Liatris (gayfeather), COMPOSITAE--Continued			Number	Percent	Percent	Percent
L. squarrosa (L.) Willd.	Ga., S.C.	Leaves	2	.19	.37	.28
	?		1	No test		
L. squarrosa (L.) Willd. var.	?		1	No test		
L. tenuifolia Nutt. (shortleaf gayfeather).	Fla.	Leaves	1	Tr		
	Fla.	Whole	2	0	.22	.11
Liatris sp.	Fla.	Leaves	5	0	.17	.03
	Colo., Fla., Nebr., N.C., S.C., U.P.	Whole	10	0	.10	.02
	Fla.	?	1	1.71		
Ligustrum (privet), OLEACEAE.						
L. japonicum Thunb. (Japanese privet)	Fla., Ga.	Leaves	2	0	0	0
	N.J.	Whole	1	.04		
L. lucidum Ait. (glossy privet)	Ga.	Leaves	1	0		
Ligustrum sp.	Fla.	Leaves	1	0		
Lilium (lily), LILIACEAE.						
L. Carolinianum. See L. michauxii.						
L. catesbaei Walt. (Catesby lily)	N.C.	Whole	1	0		
L. michauxii Poir. (Carolina lily).	Ga.	Leaves	1	0		
L. philadelphicum L. (wood lily)	N.J.	Leaves	1	Tr		
L. superbum L. (turkscap lily)	N.J.	Leaves	1	0		
L. tigrinum Ker-Gawl. (tiger lily)	N.J.	Leaves	1	0		
Lilium sp.	Ga.	Leaves	1	0		
	Ga.	Flowers	1	0		
Limodorum. See Calopogon.						
Lindera (spicebush), LAURACEAE.						
L. benzoin (L.) Blume (common spicebush).	Fla., N.J., N.C., W.Va.	Leaves	6	0	0	0
	N.J.	Whole	1	.03		
Lindernia (falsepimpernel), SCROPHULARIACEAE.						
L. grandiflora Nutt.	Fla.	Whole	2	.15	.40	.28
Linum (flax), LINACEAE.						
L. curtissii Small	Fla.	Whole	2	0	.23	.12
L. striatum Walt.	N.J.	Leaves	1	0		
Linum sp.	Fla., U.P.	Whole	5	0	0	0
Lippia (lippia), VERBENACEAE.						
L. nodiflora (L.) Michx.	Fla., La.	Leaves	2	Tr	1.08	.54
	Fla.	Whole	7	0	1.09	.40
L. stoechadifolia (L.) HBK	Fla.	Leaves	1	.03		
	Fla.	Stems	1	0		
	Fla.	Whole	1	.23		
Lippia sp.	Fla.	Leaves	1	.43		
	Fla.	Stems	1	0		
	Fla.	?	6	0	.28	.05

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
			Number	*Percent*	*Percent*	*Percent*
Liquidamber (sweetgum), HAMAMELIDACEAE.						
L. styraciflua L. (American sweetgum).----	Fla., Ga., N.C., S.C.	Leaves	17	0	.02	Tr
	Fla.	Stems	1	0		
	N.J.	Whole	1	.02		
Liriodendron (tuliptree), MAGNOLIACEAE.						
L. tulipifera L. (tuliptree; yellow poplar).	Fla., Ga., N.J., N.C., S.C.	Leaves	11	0	.03	Tr
Liriope (liriope; lilyturf), LILIACEAE.						
L. graminifolia (L.) Baker----------------	Ga.	Whole	1	0		
Lithophila vermicularis. See *Philoxerus vermicularis*.						
Lobelia (lobelia), LOBELIACEAE.						
L. amoena Michx.--------------------------	No information					
L. cardenalis L. (cardinal flower)--------	N.J., N.C., W.Va.	Leaves	8	0	.49	.14
	S.C.	Whole	1	0		
L. feayana A. Gray-----------------------	Fla.	Whole	2	0	.08	.04
L. inflata L. (indiantobacco lobelia) ----	Ga., N.J., N.C.	Leaves	4	0	.12	.03
	N.J., N.C., Va., W.Va.	Whole	6	0	.20	.07
L. kalmii L. (Ontario lobelia)-----------	Mass.	No test				
L. leptostachys. See *L. spicata leptostachys*.						
L. nuttalli Roem. & Schult.--------------	N.J.	Leaves	1	0		
L. puberula Michx.-----------------------	Ala., Fla., Ga., N.C., Va.	Leaves	7	0	.83	.22
	Ky., N.C.	Whole	2	0	.20	.10
L. syphilitica L. (bigblue lobelia) ------	N.J., N.C., Va.	Leaves	7	0	1.20	.34
	N.C., W.Va., ?		3	No test		
L. spicata Lam. (palespike lobelia) ------	Ga.	Leaves	1	.20		
L. spicata leptostachys (A.DC.) Mack. & Bush.	S.C., Va., ?		3	No test		
L. xalapensis HBK-----------------------	Fla.	Whole	2	.14	.71	.42
Lobelia sp.------------------------------	Ga., N.J., S.C.	Leaves	3	0	.19	.06
	Wash.	Whole	1	0		
	Fla.	?	2	0	Tr	Tr
Lobularia (sweetalyssum), CRUCIFERAE.						
L. maritima (L.) Desv.-------------------	Ga.	Whole	1	0		
Lochnera, APOCYNACEAE.						
L. rosea Reichb. (Madagascarperiwinkle) --	Fla.	Leaves	9	0	1.34	.82
	Fla.	Stems	5	0	.14	.05
	Fla.	Whole	1	1.95		
	Fla.	?	3	0	2.14	1.14

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Lonicera (honeysuckle), CAPRIFOLIACEAE.			Number	Percent	Percent	Percent
L. dioica L. (limber honeysuckle)---------	N.J.	?	3	0	3.28	1.75
L. fragrantissima Lindl. & Paxt. (winter honeysuckle).	Ga.	Leaves	1	3.47		
L. involucrata Banks (bearberry honeysuckle).	Wyo.	Whole	1	.05		
L. japonica Thunb. (Japanese honeysuckle).	Ala., Fla., Ga., La., Miss., N.J., N.C., S.C., Va., W.Va.	Leaves	26	0	2.15	.96
	Fla.	Stems	2	0	0	0
	N.J.	Old branches	1	.05		
	N.J.	Young branches and leaves, berries discarded	1	.60		
	N.J.	Whole	3	.22	.26	.24
L. morrowi A. Gray (Morrow honeysuckle).	N.J.	Leaves	1	Tr		
L. sempervirens L. (trumpet honeysuckle).	Fla., N.C., S.C.	Leaves	4	.89	3.31	1.71
	Fla., N.C.	Whole	4	0	.51	.18
Lonicera sp.------------------------------	Fla.	Leaves	1	0		
	Miss., S.C.	Whole	2	0	0	0
	Fla.	?	1	0		
Lophiola, HAEMODORACEAE.						
L. americana (Pursh) Coville-------------	Fla.	Whole	2	0	0	0
Lorinseria. See Woodwardia.						
Lotus (lotus), LEGUMINOSAE.						
L. helleri Britt.-------------------------	S.C.	Whole	1	0		
Lotus sp.---------------------------------	Colo.	Whole	1	0		
Ludwigia (seedbox), ONAGRACEAE.						
L. alternifolia L.------------------------	Fla., Ga., N.C., S.C., W.Va.	Leaves	12	0	.97	.39
	Ga., N.J., N.C., Va.	Whole	5	0	.56	.20
	N.J.	?	3	Tr	2.05	1.18
L. glandulosa Walt.-----------------------	Ala.	Leaves	1	0		
	Fla.	Whole	1	.03		
L. lanceolata Ell.------------------------	Fla.	Whole	1	0		
L. microcarpa Michx.----------------------	Fla.	Whole	4	0	.26	.20
L. natans L. (water seedbox)--------------	Fla.	Whole	1	.31		
L. palustris. See Isnardia palustris.						
L. suffruticosa Walt.---------------------	Fla.	Leaves	1	1.79		
	Fla.	Whole	3	.10	.65	.40
L. virgata Michx.-------------------------	Fla.	Leaves	2	.93	1.38	1.16
	Fla.	Whole	1	.20		
Ludwigia sp.------------------------------	Fla.	Leaves	3	Tr	2.41	1.08
	Fla.	Whole	3	0	.16	.10
	Fla.	?	4	0	.57	.14

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Park tested[4, 5]	Tests	Low	High	Mean
Lupinus (lupine), LEGUMINOSAE.			Number	Percent	Percent	Percent
L. diffusus Nutt.	Fla.	Leaves	8	0	.07	.01
	Fla.	Stems	3	0	.08	.03
	Fla.	Whole	1	.13		
L. villosus Willd.	Fla.	Leaves	1	0		
Lupinus sp.	Fla.	Leaves	1	0		
	N. Mex., Oreg., U.P., Utah, Wash.	Whole	13	0	0	0
	Fla.	?	2	0	0	0
Lychnis (campion), CARYOPHYLLACEAE.						
L. alba Mill. (evening campion)	N.J.	Whole	2	.09	.15	.12
L. chalcedonica L. (maltese-cross campion).	N.J.	Leaves	1	0		
L. dioica L. (red campion)	N.J.	Leaves	1	0		
L. striata Rydb. ?	Nev.	Whole	1	.04		
Lychnis sp.	N.J., N.C.	Leaves	2	0	0	0
Lycium (wolfberry), SOLANACEAE.						
L. carolinianum Walt. (Carolina wolfberry).	Fla.	Leaves	4	0	.23	.06
	Fla.	Stems	3	0	.06	.02
	Fla., Tex.	Whole	3	0	.02	.01
L. halimifolium Mill. (matrimonyvine)	N.J.	Leaves	1	0		
L. pallidum Miers (pale wolfberry)	N. Mex.	Whole	1	0		
Lycium sp.	Nebr., N.J., Wash.	Whole	3	0	0	0
	Fla.	?	2	0	0	0
Lycopersicon (tomato), SOLANACEAE.						
L. esculentum Mill. (common tomato)	N.J.	Whole	1	.23		
Lycopodium (clubmoss), LYCOPODIACEAE.						
L. alopecuroides L. (foxtail clubmoss).	Fla., N.C.	Whole	2	0	.31	.16
L. complanatum flabelliforme Fern. (groundcedar; crowfoot).	N.J.	Whole	1	0		
L. prostratum Harper ? (carpet clubmoss).	Fla.	Whole	1	.70		
Lycopus (bugleweed), LABIATAE.						
L. americanus Ell. (American bugleweed).	N.J., Tenn.	Leaves	3	Tr	.27	.09
	N.J.	Whole	1	Tr		
	N.J.	?	1	1.59		
L. pubens Britt. ?	Fla.	Whole	1	.21		
L. virginicus L. (Virginia bugleweed).	Ga.	Leaves	1	0		
	N.C.	Whole	1	0		
L. virginicus L. ?	Va.	Leaves	1	.23		
	W. Va.	Whole	1	.10		
Lycopus sp.	Fla., Ga., N.J.	Leaves	9	0	.98	.35
	Fla., U.P.	Whole	3	0	.23	.12

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Lygodesmia (skeletonplant), COMPOSITAE.			Number	Percent	Percent	Percent
L. aphylla (Nutt.) DC.	Fla.	Whole	1	.07		
L. juncea D. Don. (rush skeletonplant).	U.P.	Whole	3	Tr	.20	.09
L. spinosa Nutt. (thorn skeletonplant).	Idaho, U.P.	Whole	2	0	.60	.30
Lygodesmia sp.	Colo.	Whole	3	0	.04	.01
Lyonia (lyonia), ERICACEAE.						
L. ferruginea (Walt.) Nutt.	Fla.	Leaves	2	0	.71	.36
L. fruticosa (Michx.) G. S. Torr.	Fla., Ga.	Leaves	21	0	.23	.02
	Fla.	Stems	8	0	.05	.01
L. ligustrina (L.) DC. (he-huckleberry).	Ga., N.J., Va.	Leaves	9	0	Tr	Tr
	N.J.	Whole	2	.03	.07	.06
L. ligustrina foliosiflora (Michx.) Fern. (bracted he-huckleberry).	N.C.	Leaves	1	0		
L. lucida (Lam.) K. Koch (fetterbush lyonia).	Ala., Fla., Ga., S.C.	Leaves	10	0	Tr	Tr
	Fla.	Stems	1	0		
L. mariana (L.) D. Don. (staggerbush lyonia).	N.J.	Leaves	2	0	0	0
Lyonia sp.	Fla., Va.	Leaves	9	0	Tr	Tr
	Fla.	?	10	0	Tr	Tr
Lysiloma (lysiloma), LEGUMINOSAE.						
L. bahamensis Benth. (Bahama lysiloma).	Fla.	Leaves	1	0		
Lysiloma sp.	Fla.	?	1	0		
Lysimachia (loosestrife), PRIMULACEAE.						
L. nummularia L. (moneywort)	Ga.	Leaves	1	0		
L. quadrifolia L. (fourleaf loosestrife).	Ga., N.J., N.C., Va., W. Va.	Leaves	11	0	0	0
	N.J.	Whole	2	0	.06	.03
L. terrestris (L.) B.S.P. (swampcandle loosestrife).	N.J.	Leaves	4	0	0	0
Lysimachia sp.	N.J.	Whole	1	0		
Lythrum (lythrum), LYTHRACEAE.						
L. lanceolatum Ell.	Fla.	Leaves	2	0	Tr	Tr
	Fla.	Whole	4	0	0	0
L. lineare L.	Ga.	Leaves	2	0	0	0
	Ga.	Seeds	1	0		
L. salicaria L. (purple lythrum)	N.J.	Leaves	1	Tr		
Lythrum sp.	Fla.	Leaves	1	Tr		
	Fla.	Whole	1	.57		
	Fla.	?	1	0		
Macbridea, LABIATAE.						
M. alba Chapm.	Fla.	Leaves	1	.89		

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Maclura (osageorange), MORACEAE.			Number	Percent	Percent	Percent
M. pomifera (Raf.) Schneid. (osageorange).	Ala., Fla., Ga., Kans., N.J., Va.	Leaves	6	0	04	.01
Macranthera, SCROPHULARIACEA						
M. flammea (Bartr.) Pennell---------------	Ala.	Leaves	1	.41		
Madia (tarweed), COMPOSITAE.						
M. glomerata Hook. (cluster tarweed).	U.P., Wash.	Whole	2	0	.11	.06
Magnolia (magnolia), MAGNOLIACEAE						
M. grandiflora L. (southern magnolia).	Fla., S.C.	Leaves	8	0	0	0
M. virginiana L. (sweetbay magnolia).	Fla., N.J., S.C.	Leaves	9	0	0	0
	Fla.	Stems	3	0	.36	.12
Mahonia (mahonia), BERBERIDACEAE.						
M. aquifolium (Pursh) Nutt. (oregongrape).	Ga.	Leaves	1	0		
Maianthemum (beadruby), LILIACEAE.						
M. canadense Desf. (Canada beadlily).	N.J.	Whole	1	0		
Malachra, MALVACEAE.						
M. urens Poit.----------------------------	Fla.	Whole	1	.13		
Mallotonia gnaphalodes. See Tournefortia gnaphalodes.						
Malus (apple; crabapple), ROSACEAE.						
M. angustifolia Mill. (southern crabapple).	Fla., Ga.	Leaves	2	0	0	0
Malus sp.---------------------------------	Ga., N.J., N.C., S.C., Va.	Leaves	9	0	0	0
	N.C.	Whole	1	0		
Malva (mallow), MALVACEAE.						
M. rotundifolia L. (running mallow).	N.J.	Leaves	1	0		
	N.J., U.P.	Whole	3	0	.16	.05
M. sylvestris L. (high mallow)------------	Ga.	Leaves	1	0		
Malva sp.---------------------------------	Colo., Nebr., U.P., Utah.	Whole	11	0	0	0
	Fla.	?	1	0		
Malvastrum (falsemallow), MALVACEAE						
M. corchorifolium (Desr.) Britt.----------	Fla.	Leaves	1	.49		
	Fla.	Stems	1	0		
	Fla.	Whole	1	Tr		
Malvastrum sp.----------------------------	Fla., Tex.	Leaves	2	0	0	0
	U.P.	Whole	9	0	0	0

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Malvaviscus (waxmallow), MALVACEAE			Number	Percent	Percent	Percent
M. drummondii Torr. & Gray (Drummond waxmallow).	Fla.	Leaves	1	0		
Malvaviscus sp.--------------------------	Fla.	Leaves	1	.36		
	Fla.	Stems	1	.18		
Mammilaria. See Coryphanthes.						
Manfreda, AMARYLLIDACEAE						
M. virginica (L.) Salisb.----------------	Fla.	Leaves	1	0		
	Ga.	Whole	1	0		
Mangifera (mango), ANACARDIACEAE.						
M. indica L. (common mango)-------------	Fla.	Leaves	1	.29		
	Fla.	Stems	1	.12		
Manihot, EUPHORBIACEAE.						
Manihot sp.------------------------------	?	Roots	1	0		
	Fla.	?	1	0		
Manilkara (balata), SAPOTACEAE.						
M. emarginata (L.) Britt. & Wils---------	Fla.	Leaves	1	3.05		
	Fla.	Stems	1	.36		
	Fla.	?	2	1.56	2.14	1.85
M. zapotilla (Jacq.) Gilly (sapodilla).	Fla.	Leaves	2	2.09	3.62	2.86
	Fla.	Stems	2	.09	.26	.18
Marrubium (hoarhound), LABIATAE						
M. vulgare L. (common hoarhound)---------	Calif., Ga., N. Mex., Oreg., U.P., Utah, Va., Wash.	Whole	13	0	.56	.11
Marshallia (marshallia), COMPOSITAE.						
Marshallia sp.---------------------------	N.C.	Whole	1	.69		
Matricaria (mayweed), COMPOSITAE.						
M. inodora L. (scentless mayweed)--------	Idaho	Whole	1	.13		
Matthiola (stock), CRUCIFERAE						
M. incana (L.) R. Br. (common stock).	Fla.	Leaves	1	.93		
	Fla.	Stems	1	0		
M. incana (L.) R. Br. var.---------------	Fla.	Leaves	1	.26		
	Fla.	Stems	1	.03		
Matthioli sp.----------------------------	Fla.	Leaves	1	0		
Mayaca (mayaca), MAYACACEAE.						
M. aubletii Michx.-----------------------	Fla.	Whole	1	0		
Maytenus (mayten), CELASTRACEAE.						
M. boaria Mol. (Chile mayten)------------	Calif.	Whole	1	.12		
M. phyllanthoides Bereth. (gutta-pereha mayten)	Fla., Tex.	Leaves	6	0	1.41	.77
	Fla.	Stems	2	.58	.70	.64
	Fla.	Flowers	1	.43		
	Fla.	Leaves	1	.71		

TABLE 1.--Continued

Plants[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Mecardonia acuminata. See Pagesia acuminata.						
Medeola (medeola), LILIACEAE.			Number	Percent	Percent	Percent
M. virginiana L. (cucumberroot medeola).	N.J.	Leaves	1	Tr		
	N.J.	Whole	1	Tr		
Medicago (medic), LEGUMINOSAE.						
M. lupulina L. (black medic)	U.P.	Whole	1	0		
M. sativa L. (alfalfa)	N.J.	Leaves	1	0		
	Kans., Nebr., N.J., Oreg., U.P., Utah	Whole	17	0	.57	.03
	Fla.	?	1	0		
Medicago sp.	Fla.	Leaves	1	0		
	Colo., Kans., U.P., ?	Whole	9	0	0	0
Meibomia. See Desmodium.						
Melaleuca (melaleuca), MYRTACEAE.						
M. leucadendron L. (cajeputtree)	Fla.	Leaves	1	.11		
	Fla.	Stems	1	Tr		
Melampodium (blackfoot), COMPOSITAE.						
M. cinereum DC.	Tex.	Whole	1	.20		
Melampyrum (cowwheat), SCROPHULARIACEAE.						
M. lineare Lam. (narrowleaf cowwheat)	N.J.	Whole	3	0	0	0
Melanthera, COMPOSITAE.						
M. deltoidea Michx.	Fla.	Leaves	3	.74	1.47	1.08
	Fla.	Stems	1	.06		
M. hastata Michx.	Fla., S.C.	Leaves	5	0	2.33	1.42
	Fla.	Stems	1	0		
	Fla.	?	2	Tr	1.14	.57
M. nivea. See M. hastata						
M. parvifolia Small	Fla.	Leaves	3	.21	1.85	1.16
	Fla.	Stems	2	0	0	0
	Fla.	Whole	4	.27	.96	.57
Melanthera sp.	Fla.	Leaves	3	.39	2.14	1.69
	Fla.	Stems	1	.33		
	Fla.	?	3	Tr	1.28	.71
Melanthium (bunchflower), LILIACEAE.						
M. dispersum Small	Ga.	Whole	1	0		
Melia (chinaberry), MELIACEAE						
M. azederach L. (chinaberry)	Fla., Ga., N.C., S.C.	Leaves	11	0	.03	Tr
	Fla.	Stems	1	0		
Melicocca (honeyberry) SAPINDACEAE.						
M. bijuga L. (mamoncillo; spanishlime)	Fla.	Leaves	1	.15		
	Fla.	Stems	1	.08		

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Melilotus (sweetclover), LEGUMINOSAE.			Number	Percent	Percent	Percent
M. alba Desv. (white sweetclover)---------	N.J.	Leaves	1	0		
	Colo., Idaho, Kans., Mont., Nebr., N.J., U.P., Utah, Va.	Whole	24	0	.02	Tr
M. indica (L.) All. (annual yellow sweetclover).	Fla., N.C.	Leaves	2	0	0	0
	Fla.	Whole	1	0		
Melilotus sp.----------------------------	Colo., Kans., Nebr., Oreg., U.P., Utah, Wash.	Whole	34	0	0	0
Melochia, STERCULIACEAE.						
M. corchorifolia L.----------------------	Fla.	Leaves	2	0	Tr	Tr
M. hirsuta. See *Riedlea hirsuta*.						
Melochia sp.-----------------------------	Fla.	Leaves	2	0	0	0
	Fla.	?	3	0	1.42	.47
Melothria, CUCURBITACEAE						
M. nashii Small--------------------------	Fla.	Whole	1	.02		
M. pendula L.----------------------------	Ga.	Whole	1	0		
Melothria sp.----------------------------	Fla.	Whole	1	.23		
	Fla.	?	1	0		
Menispermum (moonseed), MENISPERMACEAE.						
M. canadense L. (common moonseed)---------	S.C.	Whole	1	0		
Mentha (mint), LABIATAE.						
M. canadensis L. (Canada mint)-----------	N.J.	Leaves	1	1.99		
	Utah	Whole	1	.83		
M. penardi. See *M. canadensis*.						
M. piperita L. (peppermint)--------------	N.J.	Leaves	2	Tr	Tr	Tr
	Va., W. Va.	Whole	3	0	.52	.17
M. rotundifolia L. (apple mint)----------	Fla.	Leaves	1	.15		
M. spicata L. (spearmint)----------------	Ga., N.J.	Leaves	2	Tr	1.28	.64
Mentha sp.-------------------------------	Fla., Va.	Leaves	2	0	1.34	.67
	Idaho, Nebr., U.P., Utah	Whole	7	0	.93	.13
	Fla., N.J.	?	2	Tr	1.73	.86
Mentzelia (mentzelia), LOASACEAE.						
M. floridana Nutt. (Florida mentzelia)----	Fla.	Leaves	1	.03		
	Fla.	Stems	2	0	0	0
	Fla.	?	1	0		
M wrightii A. Gray-----------------------	Tex.	Whole	1	0		
Mentzelia sp.----------------------------	Colo,, Nebr., Oreg., U.P., Utah	Whole	16	0	0	0
Menziesia (menziesia), ERICACEAE.						
M. pilosa (Michx.) Pers. (Allegany menziesia).	Va., W. Va.	Leaves	2	0	0	0
Mesadenia. See *Cacalia*.						

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4 5]	Tests	Low	High	Mean
Mesosphaerum, See *Hyptis*.						
Metastelma, ASCLEPIADACEAE.			Number	Percent	Percent	Percent
M. blodgettii A. Gray	Fla.	Whole	2	.25	.90	.58
M. scoparium. See *Amphistelma scoparium*.						
Metopium (poisontree), ANACARDIACEAE.						
M. toxiferum (L.) Krug & Urban (Florida poisontree).	Fla.	Leaves	5	0	.07	.01
	Fla.	Stems	5	0	0	0
Micheliella, LABIATAE.						
M. anisata (Sims.) Briq.	Ga.	Leaves	1	.57		
Micrampelis, See *Echinocystis*.						
Micranthemum (micranthemum) SCROPHULARIACEAE.						
M. umbrosum (Walt.) Blake	Fla.	Whole	1	Tr		
Micromeria (micromeria), LABIATAE.						
M. pilosiuscula (A. Gray) Small	Fla.	Leaves	1	0		
Mikania, COMPOSITAE.						
M. batatifolia DC.	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
	Fla.	Whole	2	.07	.70	.38
M. cordifolia (L.) Willd.	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
	Fla.	Whole	7	0	.30	.09
M. scandens (L.) Willd. (climbing hempweed).	Fla. Tenn.	Leaves	3	0	.06	.03
	Fla., Ga., N.J.	Whole	3	0	.12	.04
	Fla.	?	3	0	0	0
Mikania sp.	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
	Fla.	Whole	1	.04		
	Fla.	?	1	0		
Mimosa (mimosa), LEGUMINOSAE.						
M. strigillosa Torr. & Gray	Fla.	Whole	2	.10	.17	.14
Mimulus (monkeyflower), SCROPHULARIACEAE.						
M. ringens L. (Allegheny monkeyflower).	Ga., N.J., N.C., S.C., W.Va.	Leaves	8	0	.10	.01
	N.J.	Whole	1	.04		
Mimusops. See *Manilkara*.						
Mirabilis (four-o'clock), NYCTAGINACEAE.						
M. jalapa L. (common four-o'clock)	Fla.	Leaves	1	0		
Mitchella (partridgeberry), RUBIACEAE.						
M. repens L. (partridgeberry)	Fla., N.J., W.Va.	Whole	5	0	.04	.01

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Modiola (modiola), MALVACEAE.			Number	Percent	Percent	Percent
M. *caroliniana* (L.) G. Don	Fla.	Whole	1	0		
Moldavica. See *Dracocephalum*.						
Mollugo (carpetweed), AIZOACEAE.						
M. *verticillata* L. (carpetweed)	N.J.	Leaves	1	0		
	Fla., Ga., Nebr.	Whole	3	0	0	0
Momordica, CUCURBITACEAE.						
M. *charantis* L. (balsampear)	Fla.	Whole	1	0		
Monarda (beebalm), LABIATAE.						
M. *clinopodia* L.	Ga., N.J., N.C., Tenn., Va., W.Va.	Leaves	6	0	1.63	.55
	W.Va.	Whole	1	0		
M. *didyma* L. (Oswego beebalm)	N.J., N.Y., N.C.	Leaves	3	Tr	1.34	.58
M. *fistulosa* L. (wildbergamot beebalm).	Ga., N.J.	Leaves	2	1.52	1.77	1.64
	N.J.	Whole	1	.05		
	N.J.	?	2	2.28	2.45	2.36
M. *punctata* L. (spotted beebalm)	Fla., N.C., S.C.	Leaves	18	0	2.85	1.02
	Fla.	Stems	1	0		
	Fla., Va.	Whole	4	.18	.73	.38
	N.J.	?	1	Tr		
Monarda sp.	Fla., Va.	Leaves	2	.32	1.28	.80
	Fla.	Bark	1	0		
	Nebr., U.P.	Whole	3	0	0	0
	Fla.	?	1	.57		
Monnieria, RUTACEAE.						
Monnieria sp.	Fla.	?	1	0		
Monotropa (indianpipe), MONOTROPACEAE.						
M. *uniflora* L. (indianpipe)	N.J., N.C.	Leaves	2	0	Tr	Tr
Morinda (indianmulberry), RUBIACEAE.						
M. *royoc* L. (Royoc indianmulberry; redroot).	Fla.	Leaves	10	.08	2.21	.69
	Fla.	Stems	8	0	.07	.01
	Fla.	Whole	1	.25		
	Fla.	?	2	0	.57	.28
Morus (mulberry), MORACEAE.						
M. *alba* L. (white mulberry)	Fla.	Leaves	3	0	0	0
	Fla.	Stems	2	0	0	0
M. *rubra* L. (red mulberry)	Fla., N.C., S.C.	Leaves	17	0	.80	.08
	Fla.	Stems	3	0	0	0
	Fla.	Whole	1	.06		
	Fla.	?	1	0		
Morus sp.	Fla., Kans., N.J.	Leaves	3	0	0	0
	Fla.	Stems	1	0		
	Okla.	Whole	1	.03		
Mucuna (mucuna), LEGUMINOSAE.						
M. *sloanei* Fawc. & Rendle	Fla.	Whole	2	0	0	0

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Muhlenbergia (muhly), GRAMINEAE.			Number	Percent	Percent	Percent
M. asperifolia (Nees & Mey.) Parodi (alkali muhly).	Nebr.	Whole	1	0		
M. racemosa (Michx.) BSP (green muhly).	U.P.	Whole	1	0		
Muhlenbergia sp.--------------------------	U.P.	Whole	2	0	0	0
Mulgedium. See Lactuca.						
Munroa, GRAMINEAE.						
M. squarrosa (Nutt.) Torr. (false buffalograss).	No information.					
Murraya (jasminorange), RUTACEAE.						
M. exotica L. (chinabox jasminorange).	Fla.	Leaves	2	.03	.39	.21
	Fla.	Stems	2	0	.09	.04
Musa (banana), MUSACEAE						
Musa sp.----------------------------------	Fla.	Leaves	1	.34		
	Fla.	Stems	1	.57		
	N.J.	Whole	1	.15		
Myrica (bayberry; waxmyrtle), MYRICACEAE.						
M. carolinensis Mill.---------------------	Fla., Ga., N.J., S.C.	Leaves	17	0	.10	Tr
	Fla.	Stems	1	0		
	N.J.	Whole	2	.07	.11	.09
M. cerifera L. (southern waxmyrtle).	Fla., N.C., S.C., Va.	Leaves	23	0	.05	Tr
	Fla.	Stems	11	0	.13	.02
	Fla.	Whole	1	0		
	Fla.	Bark	1	0		
	Fla.	?	1	0		
M. inodora Bart. (odorless waxmyrtle).	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
M. pumila Michx.--------------------------	Fla., Miss.	Leaves	4	0	.03	.01
	Fla.	Stems	3	0	0	0
Myrica sp.--------------------------------	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
	Fla.	?	1	0		
Myriophyllum (parrotfeather), HALORAGIDACEAE.						
M. brasiliense Cambess. (Brazilian parrotfeather).	Fla.	Leaves	1	0		
Myriophyllum sp.--------------------------	Fla.	Whole	3	0	.05	.02
	Fla.	?	1	0		
Myriopus. See Tournefortia.						
Myrtus (myrtle), MYRTACEAE.						
M. communis L. (true myrtle)--------------	Fla.	Leaves	1	0		
Nabalus. See Prenanthes.						

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
			Number	Percent	Percent	Percent
Nama (nama), HYDROPHYLLACEAE.						
N. ovatum (Nutt.) Britt.------------------	Ga.	Leaves	1	.43		
N. quadrivalve (Walt.) Kuntze-------------	Ala.	Leaves	1	0		
Nama sp.----------------------------------	Fla.	Leaves	1	0		
Nectandra. See Ocotea.						
Negundo. See Acer.						
Nelumbium (lotus), NYMPHAEACEAE.						
N. pentapetalum Willd. (American lotus; waterchinkapin).	Fla.	Leaves	1	0		
	Fla.	Flowers	1	0		
Nelumbium sp.-----------------------------	U.P.	Leaves	1	0		
Nemexia. See Smilax.						
Nemopanthus (mountainholly), AQUIFOLIACEAE.						
Nemopanthus sp.---------------------------	N.J.	Leaves	1	Tr		
Neopieris. See Lyonia.						
Nepeta (nepeta), LABIATAE.						
N. cataria L. (catnip)--------------------	N.J., N.C., U.P., Va.	Leaves	5	Tr	.98	.41
	Idaho, Kans., N.C., Oreg., U.P., Utah, Wash.	Whole	14	0	1.25	.39
N. hederacea. See Glecoma hederacea.						
Nephrolepis (swordfern), POLYPODIACEAE.						
N. exaltata (L.) Schott (common swordfern).	Fla.	Leaves	1	.51		
	Fla.	Whole	1	.01		
Nerium (oleander), APOCYNACEAE						
N. oleander L. (common oleander) ---------	Fla.	Leaves	6	0	1.13	.20
	Fla.	Stems	3	0	.21	.08
Nicandra (appleofperu), SOLANACEAE.						
N. physalodes (L.) Pers. (appleofperu)----	Ga.	Leaves	1	0		
Nicotiana (tobacco), SOLANACEAE						
N. tabacum L. (common tobacco)------------	Fla., N.C.	Leaves	3	0	0	0
Nintooa. See Lonicera.						
Niobe. See Hosta.						
Nolina (nolina), LILIACEAE						
N. georgiana Bartlett---------------------	Ga.	Whole	1	0		
Norta. See Sisymbrium.						
Nuphar (cowlily), NYMPHAEACEAE						
N. advena Ait. (spatterdock cowlily)------	Fla.	Leaves	1	0		
	Fla.	Whole	2	0	.85	.42

TABLE -.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Nyachia. See Paronychia.						
Nymphaea (waterlily), NYMPHAEACEAE.						
			Number	Percent	Percent	Percent
N. advena. See Nuphar advena.-------------						
N. odorata Ait. (American waterlily).-----	Fla.	Whole	1	1.80		
Nyssa (nyssa), NYSSACEAE						
N. aqatica L. (water tupelo)-------------	S.C.	Leaves	1	0		
N. biflora. See N. sylvatica biflora.						
N. ogeche Bartr. (Ogeechee tupelo)-------	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
N. sylvatica Marsh. (black tupelo; blackgum).	Fla., Ga., N.J., N.C., S.C.	Leaves	15	0	0	0
	Fla.	Stems	2	0	0	0
N. sylvatica biflora (Walt.) Sarg. (swamp black tupelo).	Fla., N.C.	Leaves	7	0	0	0
N. ursina Small (bear tupelo)------------	Fla.	Leaves	2	0	0	0
	Fla.	Stems	1	0		
Nyssa sp.--------------------------------	Ga., N.C., S.C.	Leaves	7	0	0	0
Ocimum (basil), LABIATAE						
O. basilicum L. (sweet basil)------------	Fla.	Leaves	1	.33		
O. micranthum Willd. (American basil)-----	Fla.	Leaves	1	.15		
	Fla.	Stems	1	0		
Ocimum sp.-------------------------------	Fla.	Leaves	1	1.14		
	Fla.	Bark	1	Tr		
	Fla.	?	3	0	0	0
Ocotea (ocotea), LAURACEAE.						
O. coriacea (Sw.) Britt. (Jamaica ocotea)--	Fla.	Leaves	7	0	.04	.01
	Fla.	Stems	4	0	Tr	Tr
	Fla.	Whole	1	.05		
Odontonychia. See Siphonychia.						
Odostemon. See Mahonia.						
Oenothera (eveningprimrose; sundrops), ONAGRACEAE.						
O. arenicola (Small) Hayes---------------	Ga.	Leaves	1	.22		
O. biennis L. (common evening-primrose)---	Fla., Ga., N.J., N.C., S.C., Va., W. Va.	Leaves	17	0	.84	2.37
	Fla.	Flowers	1	.05		
	N.J., Va.	Whole	6	.03	.70	.16
	N.J.	?	3	Tr	1.86	.62
O. coronopifolia Torr. & Gray------------	U.P.	Whole	1	.06		
O. cruciformis Kell.----------------------	Utah	Whole	1	.29		
O. curtissii (Rose) Small----------------	Fla.	No test				
O. drummondii Hook. (Drummond eveningprimrose).	Fla.	Leaves	1	.18		

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Oenothera (eveningprimrose; sundrops), ONAGRACEAE.--Continued			Number	Percent	Percent	Percent
O. fruticosa L. (common sundrops)	N.C.	Leaves	1	.59		
	N.J.	?	3	Tr	2.39	1.41
O. humifusa Nutt.	Fla.	Leaves	2	0	.10	.05
	Fla.	Whole	4	.23	.76	.52
O. laciniata Hill (cutleaf eveningprimrose).	Fla.	Leaves	1	Tr		
O. mollissima L.	Fla.	Leaves	1	.76		
O. serrulata Nutt. ?	Tex.	Whole	1	.12		
O. speciosa Nutt.	Fla.	Leaves	1	.57		
	Ga.	Whole	1	.33		
Oenothera sp.	Fla., Ga., Idaho, Kans., Nebr., N.J., Tex., U.P.	Leaves	5	0	1.56	.94
		Whole	33	0	.63	.04
	Fla.	Stems	1	0		
	Fla., N.J.	?	12	0	2.56	.49
Oldenlandia, RUBIACEAE.						
O. uniflora L.	Fla.	Whole	1	.23		
Oldenlandia sp.	Fla.	Whole	2	0	.43	.22
Oligoneuron. See *Solidago*						
Onagra. See *Oenothera*						
Onocelea, POLYPODIACEAE.						
O. sensibilis L. (sensitivefern)	N.J.	Whole	1	0		
Onosmodium (marbleseed), BORAGINACEAE.						
O. hispidissimum Mack.	Va.	Leaves	1	0		
O. virginianum (L.) DC.	Fla.	Leaves	1	0		
Onosmodium sp.	Nebr., Utah, Va.	Whole	4	0	0	0
Oplismenus, GRAMINEAE						
O. setarius (Lam) R. & S.	Fla.	Whole	1	.05		
Opulaster. See *Physocarpus*						
Opuntia (cholla; pricklypear), CACTACEAE.						
Opuntia sp.	Colo.	Whole	1	0		
	Fla.	?	3	0	0	0
Oreocarya. See *Cryptantha*.						
Origanum (origanum), LABIATAE.						
O. vulgare L. (common origanum)	N.J.	Leaves	1	1.39		
Orontium (goldenclub), ARACEAE.						
O. aquaticum L. (goldenclub)	Ga.	Leaves	1	0		
Oryzopsis (ricegrass), GRAMINEAE.						
O. hymenoides (R. & S.) Ricker (indian ricegrass).	U.P.	Whole	1	0		

TABLE 1.--Continued

Plant[1]	Collected[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Osmanthus (osmanthus), OLEACEAE.			Number	Percent	Percent	Percent
O. americanus (L.) Benth. & Hook.f. (devilwood osmanthus).	Fla., Ga.	Leaves	7	0	0	0
Osmundo, OSMUNDACEAE						
O. cinnamomea L. (cinnamonfern)	Fla.	Leaves	2	0	.07	.04
	Fla.	Stems	1	0		
	Ga., S.C.	Whole	3	0	0	0
O. regalis L. (royalfern)	Ga.	Leaves	1	0		
	Fla., N.C., S.C.	Whole	6	0	0	0
	Fla.	?	1	0		
Ostrya (hophornbean), BETULACEAE.						
O. virginiana (Mill.) K. Koch (American hophornbean).	Fla., S.C.	Leaves	4	0	0	0
Ostrya sp.	Fla.	Leaves	1	0		
Othake (othake), COMPOSITAE.						
O. texanum (DC.) Bush. (Texas othake).	Tex.	Whole	1	.20		
Oxalis (oxalis), OXALIDACEAE.						
O. corniculata L. (creeping oxalis).	Fla.	Whole	1	0		
O. europea Jord. (European yellow oxalis).	N.J.	Leaves	1	0		
Oxalis sp.	Fla.	Whole	1	0		
Oxybaphus, NYCTAGINACEAE.						
O. albidus (Walt.) Sw.	Ga.	Leaves	1	0		
Oxybaphus sp.	Colo., Kans., Nebr., U.P., Wyo.	Whole	11	0	0	0
Oxycoccus. See *Vaccinium*.						
Oxydendron (sourwood), ERICACEAE.						
O. arboreum (L.) DC. (sourwood)	Fla., Ga., N.C., S.C., Va.	Leaves	10	0	.02	Tr
	N.C.	Whole	1	0		
Oxypolis (cowbane), UMBELLIFERAE.						
O. filiformis (Walt.) Britt. (tender cowbane).	Fla., N.C.	Whole	2	0	0	0
O. rigidior (L.) Raf. (stiff cowbane).	Ga., Va.	Leaves	2	0	0	0
Oxytropis (crazyweed), LEGUMINOSAE.						
Oxytropis sp.	N. Mex., Wyo.	Whole	2	0	0	0
Pachysandra (pachysandra), BUXACEAE.						
Pachysandra sp.	?	Whole	1	.41		

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Pachystachys (cardinalsguard), ACANTHACEAE.			Number	Percent	Percent	Percent
P. coccinea (Aubl.) Nees (blackstick cardinalsguard).	Fla.	Leaves	1	1.85		
	Fla.	Stems	1	.11		
Pachystachys sp.	Fla.	Leaves	1	1.55		
Paeonia (peony), RANUNCULACEAE.						
Paeonia sp.	Ga.	Leaves	1	0		
Pagesia, SCROPHULARIACEAE.						
P. acuminata (Walt.) Pennell	Fla., Ga., Tenn.	Leaves	3	0	0	0
	Fla., Va.	Whole	5	0	.21	.06
	Fla.	?	1	0		
Palaxifoxia (palaxifoxia), COMPOSITAE						
P. feayi A. Gray (feay)	Fla.	Leaves	9	0	0	0
	Fla.	Stems	3	0	0	0
	Fla.	?	1	0		
Palaxifoxia sp.	Fla.	Leaves	1	0		
Pandanus (screwpine), PANDANACEAE.						
Pandanus sp.	Fla.	Leaves	1	1.32		
Panicum (panicum; witchgrass), GRAMINEAE						
P. adspersum Trin. (Dominican panicum).	Fla.	?	1	0		
P. anceps Michx. (beaked panicum)	S.C.	Whole	1	0		
P. bartowense Scribn. & Merr. (Bartow panicum).	Fla.	Whole	1	0		
P. capillare L. (common witchgrass).	Colo., Idaho, Nebr., U.P.	Whole	5	0	0	0
P. clandestinum L.	N.J., N.C., Va.	Whole	4	0	0	0
P. commutatum Schult.	Fla.	Whole	1	0		
P. consanguineum Kunth	Fla.	Whole	1	0		
P. gymnocarpon Ell. (Savannah panicum)	Fla.	Whole	1	.18		
P. scoparium Lam. (velvet panicum)	Ga.	Whole	1	0		
P. virgatum L. (switchgrass)	No information					
Panicum sp.	Fla., Kans., N.C., U.P., Va., W. Va.	Whole	8	0	.69	.15
Papyrius. See Broussenetia.						
Parietaria (pellitory), URTICACEAE						
P. floridana Nutt.	Fla.	Whole	6	0	.02	Tr
Parietaria sp.	Fla.	?	1	0		
Parnassia (parnassia), SAXIFRAGACEAE.						
P. caroliniana Michx. (Carolina parnassia).	N.J.	Leaves	1	Tr		

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Paronychia (nailwort; Whitlowwort), CARYOPHYLLACEAE.			Number	Percent	Percent	Percent
P. baldwinii (Torr. & Gray) Fenzl (Baldwin nailwort).	Fla.	Whole	1	0		
P. canadensis (L.) Wood	N.J.	Leaves	1	0		
	N.J., S.C.	Whole	2	0	0	0
P. chartacea Fern.	Fla.	Whole	1	0		
P. herniarioides (Michx.) Nutt.	Ga.	Leaves	1	0		
P. jamesii Torr. & Gray (James nailwort).	Tex.	No test				
P. pulvanata. See P. chartacea.						
P. rugelii Shuttlw. ex Chapm.	Fla.	Whole	2	0	4.09	2.04
Paronychia sp.	Fla.	?	1	0		
Parosela. See Dalea.						
Parsonsia. See Cuphea.						
Parthenium (parthenium), COMPOSITAE.						
P. argentatum A. Gray (guayule)	Tex.	Bark	1	11.26		
	Tex.	Tops	1	4.27		
P. hysterophorus L.	Fla.	Leaves	1	.17		
P. integrifolium L.	N.C., S.C.	Leaves	2	0	.43	.22
	N.C., Va.	Whole	2	.91	.98	.94
Parthenocissus (creeper), VITACEAE.						
P. quinquefolia (L.) Planch. (Virginia creeper).	Fla., N.J.	Leaves	9	0	.10	.01
	Fla.	Stems	2	0	Tr	Tr
	Fla., N.J., N.C.	Whole	6	0	.02	Tr
P. tricuspidata (Sieb. & Zucc.) Planch. (Japanese creeper).	Fla.	Leaves	1	0		
	Ala.	Whole	1	0		
Parthenocissus sp.	Nebr., U.P.	Whole	2	0	0	0
	Fla.	?	1	0		
Paspalum (paspalum), GRAMINEAE.						
Paspalum sp.	N.C.	Whole	1	0		
Passiflora (passionflower), PASSIFLORACEAE.						
P. incarnata L. (maypop passionflower)	Fla., N.C., S.C.	Leaves	4	0	.05	.01
	Fla., Ga., Va.	Whole	5	0	0	0
P. lutea L. (yellow passionflower).	Ga.	Whole	1	0		
P. multiflora L.	Fla.	Whole	1	.03		
P. pallida L.	Fla.	Whole	3	0	0	0
P. sexflora Juss.	Fla.	Whole	1	.04		
Passiflora sp.	Fla.	?	3	0	0	0

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Pastinaca (parsnip), UMBELLIFERAE.						
			Number	Percent	Percent	Percent
P. sativa L. (garden parsnip)------------	N.J.	Leaves	2	0	0	0
	N.J., N.C., U.P., Utah	Whole	6	0	.20	.04
Pastinaca sp.----------------------------	Wash.	Whole	1	0		
Paulownia (paulownia), SCROPHULARIACEAE.						
P. tomentosa (Thunb.) Steud. (royal paulownia).	Ga.	Leaves	1	.02		
	N.J.	Whole	1	.12		
Pavonia (pavonia), MALVACEAE.						
Pavonia sp.------------------------------	Fla.	Leaves	2	0	0	0
Pectis (pectis), COMPOSITAE.						
P. leptocephala (Cass.) Urban------------	Fla.	Whole	1	0		
Pedicularis (pedicularis), SCROPHULARIACEAE.						
P. canadensis L. (early pedicularis).-----	N.J., N.C.	Leaves	2	0	0	0
	N.J., N.C.	Whole	3	0	0	0
P. lanceolata Michx. (swamp pedicularis).	N.J.	Leaves	3	0	0	0
Pedilanthus (slipperflower), EUPHORBIACEAE.						
Pedilanthus sp.--------------------------	Fla.	Stems	1	.25		
	Fla., ?	Whole	2	Tr	.10	.05
Peiranisia bahamensis. See *Cassia bahamensis*.						
Peltandra (arrowarum), ARACEAE.						
P. glauca (Ell.) Feay (redfruit arrowarum).	Fla.	Leaves	1	0		
P. sagittaefolia. See *P. glauca*.						
P. virginica (L.) Kunth (Virginia arrowarum).	Fla., Ga., N.J.	Leaves	3	0	0	0
	Fla.	Stems	1	0		
	Fla.	Whole	1	0		
Peltandra sp.----------------------------	Fla.	?	1	0		
Pennisetum (pennisetum), GRAMINEAE.						
P. glaucum (L.) R. Br. (pearlmillet; cattailmillet).	Ga.	Whole	1	0		
Penstemon (penstemon), SCROPHULARIACEAE.						
P. digitalis Nutt.-----------------------	N.J.	Leaves	3	0	0	0
P. laevigatus Solander (smooth penstemon).	Ga.	Leaves	1	0		
P. multiflorus Chapm. (pineywoods penstemon).	Fla.	Leaves	4	0	.03	.01
	Fla.	Stems	2	0	Tr	Tr
	Fla.	Flowers	1	.03		
	Fla.	Whole	2	0	0	0
Penstemon sp.----------------------------	Fla.	Leaves	4	0	0	0
	Fla.	Stems	1	0		
	Fla., N.J., U.P.	Whole	4	0	.24	.06
	Fla.	?	3	0	0	0

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Penthorum (penthorum), CRASSULACEAE.			Number	Percent	Percent	Percent
P. sedoides L. (Virginia penthorum)	Ala., N.J., W.Va.	Leaves	5	0	0	0
	N.J.	?	1	0		
Pentodon, RUBIACEAE.						
P. halei (Torr. & Gray) A. Gray	Fla.	Whole	1	0		
Peperomia (peperomia), PIPERACEAE.						
P. obtusifolia (L.) Dietr. (ovalleaf peperomia).	Fla.	Whole	1	.33		
Peramium. See *Goodyera*.						
Pereskia (pereskia), CACTACEAE.						
P. aculeata Mill. (Barbadosgooseberry)	Fla.	Leaves	1	0		
Perilla (perilla), LABIATAE.						
P. frutescens (L.) Britt. (common perilla).	Fla., Ga., S.C.	Leaves	5	0	.93	.24
Persea (persea), LAURACEAE.						
P. americana Mill. (American avocado)	Fla.	Leaves	2	0	0	0
	Fla.	Stems	1	0		
P. borbonia (L.) Spreng. (redbay persea).	Fla., Ga.	Leaves	6	0	0	0
	Fla.	Stems	1	0		
P. humilis Nash	Fla.	Leaves	1	0		
P. palustris (Raf.) Sarg. (swampbay persea).	Fla., Ga., N.C., S.C.	Leaves	8	0	.07	.01
Persea sp.	Fla., La.	Leaves	3	0	.04	.01
	Fla.	Stems	2	0	0	0
	Fla.	Whole	1	0		
	Fla.	?	1	0		
Petalostemon (also *petalostemum*) (prairieclover), LEGUMINOSAE.						
P. carneus Michx.	Fla.	Whole	5	0	.03	Tr
P. feayi Chapm.	Fla.	Whole	1	0		
Petalostemon sp.	Fla.	Leaves	1	0		
	Colo., Fla., Nebr., U.P.	Whole	9	0	0	0
Petalostemum. See *Petalostemon*						
Petasites (butterbur), COMPOSITAE.						
Petasites sp.	N.J.	?	1	2.99		
Petrea (petrea), VERBENACEAE.						
P. volubilis L. (purplewreath petrea).	Fla.	Leaves	1	.46		
	Fla.	Stems	1	.12		
Petroselinum (parsley), UMBELLIFERAE.						
P. crispum latifolium (common garden parsley).	Fla.	Whole	1	0		

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
			Number	Percent	Percent	Percent
Petunia (petunia), SOLANACEAE.						
P. axillaris (Lam.) BSP (whitemoon petunia).	Fla.	Leaves	1	0		
	N.C.	Whole	1	0		
Phacelia (phacelia), HYDROPHYLLACEAE.						
P. heterophylla Pursh ?------------------	N. Mex.	No test				
Phacelia sp.-----------------------------	U.P.	Whole	1	0		
Phaethusa. See Verbesina.						
Phalaris (canarygrass), GRAMINEAE.						
P. canariensis L. (canarygrass)----------	N.J.	Whole	1	.17		
Phaseolus (bean), LEGUMINOSAE.						
P. polystachys (L.) BSP (thicket bean)---	Fla.	Leaves	1	0		
P. sinuatus Nutt.------------------------	Fla.	Whole	3	0	.02	Tr
Phaseolus sp.----------------------------	Fla., Tenn.	Leaves	3	0	0	0
Phenianthus. See Lonicera.						
Philadelphus (mockorange), SAXIFRAGACEAE.						
Philadelphus sp.-------------------------	Ga., N.J., S.C., Tenn.	Leaves	6	0	.54	.16
	Oreg.	Whole	1	0		
Philibertia (philibertia), ASCLEPIADACEAE.						
P. clausa K. Schum. (sweet philibertia)--	Fla.	Stems	1	.43		
	Fla., ?	Whole	11	.16	.91	.52
Philibertia sp.--------------------------	Fla.	?	1	0		
Philoxerus, AMARANTHACEAE.						
P. vermicularis (L.) R. Br.--------------	Fla.	Whole	3	0	0	0
	Fla.	?	1	0		
Phlebodium. See Polypodium.						
Phleum (timothy), GRAMINEAE.						
P. pratense L. (timothy)-----------------	U.P.	Whole	1	0		
Phlox (phlox), POLEMONIACEAE.						
P. drummondii Hook. (Drummond phlox).	Fla.	Whole	2	0	0	0
P. glaberrima L. (smooth phlox)----------	Ga.	Leaves	1	0		
	Fla.	Whole	1	.05		
P. nivalis Lodd. ? (trailing phlox).	Ga.	Whole	1	0		
P. paniculata L. (summer phlox)----------	N.J., S.C.	Leaves	7	0	0	0
	N.J.	Whole	1	.13		
Phlox sp.--------------------------------	Idaho, N.J.	Whole	2	0	.08	.04
	Fla.	?	2	0	Tr	Tr

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Phoebanthus, COMPOSITAE.			Number	Percent	Percent	Percent
P. grandiflorus (Torr. & Gray) Blake.	Fla.	Leaves	2	0	0	0
	Fla.	Flowers	1	.18		
	Fla.	Whole	1	0		
P. tenuifolius (Torr. & Gray) Blake.	Fla.	Leaves	1	0		
Phoenix (date), PALMACEAE.						
Phoenix sp.	Fla.	Leaves	1	.21		
Phoradendron (American mistletoe), LORANTHACEAE.						
P. eatoni Trel.	Fla.	Leaves	1	2.81		
	Fla.	Stems	1	.92		
P. macrotomum Trel.	Fla.	Leaves	2	.35	.99	.67
	Fla.	Stems	1	.70		
	N. Mex.	Whole	1	.22		
Phragmites (reed), GRAMINEAE.						
P. communis Trin. (common reed)	Fla.	Leaves	1	.68		
	Fla.	Stems	1	.04		
	N.J., U.P., Utah	Whole	3	.33	.63	.45
Phryma (lopseed), VERBENACEAE.						
P. leptostachya L. (American lopseed).	N.J.	Leaves	1	0		
Phyllanthus (leafflower), EUPHORBIACEAE.						
P. acidus (L.) Skeels (Otaheitegooseberry leafflower).	Fla.	Leaves	2	0	0	0
P. garberi Small	Fla.	Leaves	1	0		
	Fla.	Whole	2	0	0	0
Phyllanthus sp.	Fla.	Leaves	2	0	2.61	1.30
	Fla.	Bark	2	0	0	0
	Fla.	Whole	1	.25		
	Fla.	?	1	0		
Phyllostachys, GRAMINEAE.						
Phyllostachys sp.	Fla.	Whole	1	.48		
Physalis (groundcherry), SOLANACEAE.						
P. angulata L. (cutleaf groundcherry).	U.P.	Whole	1	.10		
P. angustifolia Nutt.	Fla.	Leaves	1	.04		
	Fla.	Stems	1	0		
P. arenicola Kearn.	Fla.	Whole	1	0		
P. barbadensis Jacq.	Fla.	Whole	3	0	0	0
P. elliottii Kuntze	Fla.	Leaves	1	.10		
	Fla.	Stems	1	0		
	Fla.	Flowers	1	0		
P. heterophylla Nees (clammy groundcherry)	N.J.	Whole	3	0	0	0
P. mollis Nutt.	Tex.	Whole	1	0		

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Physalis (groundcherry), SOLANACEAE.--Continued.			Number	Percent	Percent	Percent
P. subglabrata Mack. & Bush (taperleaf groundcherry).	Va.	Whole	1	0		
P. viscosa L.	Fla.	Whole	2	0	0	0
Physalis sp.	Fla., N.J.	Leaves	8	0	.02	Tr
	Fla.	Stems	2	0	0	0
	Fla., Kans., Nebr., N.J., U.P., Utah	Whole	32	0	.11	Tr
	Fla.	?	6	0	0	0
Physalodes. See *Nicandra*.						
Physocarpus (ninebark), ROSACEAE.						
P. opulifolius (L.) Maxim. (common ninebark).	N.J.	Leaves	1	Tr		
Physostegia (lionsheart), LABIATAE.						
P. denticulata (Ait.) Britt.	Fla.	Leaves	1	.09		
	Fla.	Whole	1	.04		
P. leptophylla Small	Fla.	?	1	Tr		
P. virginiana (L.) Benth. (Virginia lionsheart).	N.J., N.C., Tenn.	Leaves	4	Tr	.34	.10
Physostegia sp.	Fla.	Leaves	3	0	Tr	Tr
Phytolacca (pokeberry), PHYTOLACCACEAE.						
P. americana L. (common pokeberry)	N.J., N.C., S.C.	Leaves	3	0	0	0
	Fla., Kans., N.J.	Whole	7	0	.13	.03
P. rigida Small	Fla.	Leaves	7	0	.02	.01
	Fla.	Stems	4	0	0	0
Phytolacca sp.	Fla.	Leaves	1	0		
	Fla., U.P.	Whole	1	0		
	Fla.	?	3	0	0	0
Picris (oxtongue), COMPOSITAE.						
P. hieracioides L. (hawkweed oxtongue).	N.J.	Leaves	1	Tr		
	N.J.	Whole	1	Tr		
Pieris (pieris), ERICACEAE.						
P. floribunda (Pursh), Benth. & Hook. (mountain pieris).	Va.	Leaves	1	0		
Pilea (clearweed), URTICACEAE.						
P. microphylla (L.) Liebm. (artillery clearweed).	Fla.	Whole	1	0		
P. pumila (L.) A. Gray (Canada clearweed; coolweed; richweed).	Ga.	Leaves	1	0		
	Va.	Whole	1	0		
Pilea sp.	Fla.	?	1	0		
Pilostaxis. See *Polygala*.						
Pinckneya (pinckneya), RUBIACEAE.						
P. pubens Michx. (pinckneya)	Fla.	Leaves	2	0	0	0

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
			Number	Percent	Percent	Percent
Pinguicula (butterwort), LENTIBULARIACEAE						
P. caerulea. See P. elatior.						
P. elatior Michx. (tall butterwort)	Fla.	Whole	1	0		
Pinus (pine), PINACEAE						
P. clausa (Engelm.) Vasey (sand pine)	Fla.	Whole	1	.11		
P. nigra Arnold (Austrian pine)	N.J.	Whole	1	.09		
Piriqueta (piriqueta), TURNERACEAE						
P. caroliniana (Walt.) Urban (Carolina piriqueta).	Fla., Ga.	Leaves	2	0	0	0
	Fla.	Whole	6	0	.03	.02
P. glabrescens Small	Fla.	Whole	1	0		
P. tomentosa HBK (woolly piriqueta)	Fla.	Whole	2	0	0	0
Piriqueta sp.	Fla.	Leaves	1	0		
	Fla.	?	1	0		
Piscidia (fishfuddletree), LEGUMINOSAE						
P. communis (Blake) Harms (Florida fishfuddletree).	Fla.	Leaves	7	0	.63	.47
Pisonia (pisonia), NYCTAGINACEAE						
P. aculeata L. (devilsclaw pisonia)	Fla.	Leaves	4	0	.45	.13
	Fla.	Stems	2	0	.02	.01
Pistia (waterlettuce), ARACEA						
P. stratiotes L. (waterlettuce)	Fla.	Whole	3	0	.05	.03
Pithecolobium (apes-earring), LEGUMINOSAE						
P. guadelupense (Pers.) Chapm.	Fla.	Leaves	3	0	0	0
	Fla.	Stems	3	0	.04	.01
P. unguis-cati (L.) Benth. (catclaw apes-earring).	Fla.	Leaves	5	0	.28	.06
	Fla.	Stems	3	0	0	0
Pithecolobium sp.	Fla.	Leaves	4	0	.85	.21
	Fla.	Stems	1	0		
	Fla.	?	4	0	0	0
Pittosporum (pittosporum), PITTOSPORACEAE.						
P. tobira Ait. (Tobira pittosporum)	Fla., Ga.	Leaves	3	0	2.46	.82
	Fla.	Stems	1	0		
	Fla.	Trimmings	1	0		
Pityopsis. See Chrysopsis.						
Pityothamnus. See Asmina.						
Planera (waterelm), ULMACEAE						
P. aquatica (Walt.) Gmel. ? (waterelm).	S.C.	Leaves	1	0		

Table 1.--Continued

Plant[1]	Collected in[2], 3	Laboratory tests for rubber				
		Part tested[4], 5	Tests	Low	High	Mean
Plantago (plantain), PLANTAGINACEAE.			Number	Percent	Percent	Percent
P. aristata Michx. (bottlebrush indianwheat).	Fla.	Whole	1	0		
P. lanceolata L. (buckhorn plantain)	Fla., N.J.	Leaves	3	0	0	0
	Fla., N.J., N.C., S.C. W.Va.	Whole	9	0	.07	.01
P. major L. (rippleseed plantain)	S.C., U.P.	Whole	3	0	0	0
P. purshii Roem. & Schult. (woolly indianwheat).	N.Mex.	No test.				
P. rugelii Decne. (blackseed plantain).	N.J.	Leaves	1	0		
	N.J., Fla.	Whole	2	0	.09	.04
P. virginica L. (paleseed plantain)	Fla.	?	1	0		
Plantago sp.	U.P.	Leaves	1	0		
	Nebr.	Whole	2	0	0	0
	Fla.	?	2	0	0	0
Platanus (planetree; sycamore), PLATANACEAE.						
P. occidentalis L. (American planetree; American sycamore).	Fla., N.C., S.C.	Leaves	6	0	0	0
Pluchea (pluchea), COMPOSITATE.						
P. camphorata(L.) DC. (camphor pluchea).	Fla.	Whole	1	.90		
P. foetida (L.) DC.	Ala., Fla., S.C.	Leaves	12	Tr	2.25	1.00
	Fla.	Stems	2	0	.11	.06
	Fla.	Whole	3	0	.25	.08
	Fla.	?	4	Tr	1.99	.71
P. imbricata (Kearn.) Nash	Fla.	Leaves	3	0	1.58	.65
P. odorata Cass.	Fla.	Leaves	1	1.42		
	Fla.	Stems	1	0		
P. purpurascens (Sw.) DC.	Fla.	Leaves	3	Tr	.53	.33
	Fla.	Stems	1	Tr		
	Fla.	Whole	2	.03	1.71	.87
	Fla.	?	1	.57		
P. sericea (Nutt.) Cov. (arrowweed pluchea).	N.Mex	Whole	1	.33		
Pluchea sp.	Fla.	Leaves	3	0	1.00	.42
	Fla.	Whole	2	0	.13	.06
	Fla.	?	2	0	0	0
Plumbago (plumbago), PLUMBAGINACEAE.						
P. capensis L. (Cape plumbago)	Fla.	Leaves	2	0	0	0
Podophyllum (mayapple), BERBERIDACEAE.						
P. peltatum L. (common mayapple)	N.J., N.C.	Leaves	2	0	0	0
Pogonia (pogonia), ORCHIDACEA.						
P. verticillata (Willd.) Nutt. (Atlantic pogonia).	W.Va.	Whole	1	0		

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Poinciana (poinciana), LEGUMINOSAE.			Number	Percent	Percent	Percent
P. pulcherrima flava (yellow flowerfence poinciana).	Fla.	Leaves	1	.15		
	Fla.	Stems	1	.03		
Poinsettia. See Euphorbia.						
Polanisia (clammyweed), CAPPARIDACEAE.						
P. tenuifolia Torr. & Gray	Fla.	Leaves	1	Tr		
	Fla.	Whole	1	0		
	Fla.	?	1	0		
Polanisia sp.	Colo., Kans., Nebr., U.P., Utah	Whole	9	0	0	0
Polyalthia (greenstar), ANNONACEAE.						
P. suberosa Benth. & Hook.	Fla.	Leaves	1	.16		
	Fla.	Stems	1	.54		
Polycodium. See Vaccinium.						
Polygala (polygala), POLYGALACEAE.						
P. baldwinii Nutt.	Fla.	Whole	3	0	Tr	Tr
P. boykinii Nutt.	Fla.	Whole	2	0	0	0
P. brevifolia Nutt.	Mass.	Whole	1	.29		
P. carteri Small	Fla.	Whole	1	0		
P. corallicola Small	Fla.	Whole	1	.16		
P. cruciata L.	Fla.	Whole	3	0	0	0
P. curtissii A. Gray	Ga., N.C.	Whole	3	0	0	0
P. cymosa Walt.	Fla.	Whole	5	0	.08	.02
P. dalmaisiana Hort. (Dalmais polygala)	Calif.	Whole	1	.26		
P. flagellaris Small	Fla.	Whole	1	.02		
P. grandiflora Walt.	Fla.	Whole	1	0		
	Fla.	?	4	0	Tr	Tr
P. grandiflora Walt. var.	Fla.	Leaves	1	0		
	Fla.	Whole	1	0		
P. incarnata L.	Fla.	Whole	2	0	0	0
P. lutea L. (orange polygala)	Fla., N.J., N.C.	Whole	3	0	.07	.02
P. polygama Walt. (bitter polygala)	Mass.	Whole	1	.05		
P. ranosa Ell.	Fla., N.C.	Whole	5	0	0	0
P. rugelii Shuttlw.	Fla.	Leaves	2	0	0	0
	Fla.	Stems	1	0		
	Fla.	Whole	2	0	0	0
P. sanguinea L. (blood polygala)	Mass.	No test				
P. verticillata L.	Mass.	No test				
P. verticillata ambigua (Nutt.) Wood	N.J.	Leaves	1	0		

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Polygala (polygala), POLYGALACEAE.--Continued			Number	Percent	Percent	Percent
P. viridescens L.	N.J.	Leaves	1	Tr		
	N.J.	Whole	1	0		
Polygala sp.	Fla.	?	1	0		
Polygonatum (solomonseal), LILIACEAE.						
P. biflorum (Walt.) Ell. (little solomonseal).	N.J.	Leaves	2	0	0	0
	N.C.	Whole	1	0		
P. commutatum (R. & S.) Dietr. (great solomonseal).	N.C.	Leaves	1	0		
	N.J.	?	1	0		
Polygonella (jointweed), POLYGONACEAE.						
P. americana (F. & M.) Small (southern jointweed).	Ga.	Whole	2	0	0	0
P. articulata (L.) Meissn. (coast jointweed).	N.J.	Whole	2	0	0	0
P. brachystachya Meissn.	Fla.	Whole	3	0	0	0
P. gracilis (Nutt.) Meissn.	Fla.	Whole	1	0		
P. polygama (Vent.) A. Gray	Fla.	Whole	3	0	0	0
Polygonella sp.	Fla.	Leaves	1	0		
	Fla.	Whole	1	0		
	Fla.	?	2	0	0	0
Polygonum (knotweed), POLYGONACEAE.						
P. arifolium. See *Tracaulon arifolium*.						
P. aviculare L. (prostrate knotweed)	N.J.	Leaves	1	0		
	N.J., Up., Utah	Whole	4	0	0	0
P. aviculare L. var.	Ga., Va.	Whole	2	0	0	0
P. convolvulus L. (dullseed cornbind)	N.J.	Leaves	1	0		
	Fla., U.P.	Whole	3	0	0	0
P. cuspidatum Sieb. & Zucc. (Japanese fleeceflower).	N.J., Tenn.	Leaves	3	0	0	0
P. dumetorum L. (hedge knotweed)	Ga., Kans., N.J., N.C., Va.	Whole	7	0	.10	.01
P. erectum L. (erect knotweed)	Ga., N.J.	Leaves	2	0	0	0
P. hirsutum Walt. (hairy smartweed)	Fla.	Leaves	1	0		
P. hydropiperoides Michx. (swamp smartweed).	Fla.	Leaves	1	0		
	Fla.	Whole	1	0		
P. muhlenbergii (Meissn.) S. Wats. (bigroot ladysthumb).	N.J.	Leaves	2	0	0	0
	Kans., Nebr., U.P.	Whole	3	0	0	0
P. orientale L. (princesplume ladysthumb)	Ga., N.J.	Leaves	2	0	.10	.05
P. pennsylvanicum L. (Pennsylvania smartweed).	Ga., Kans., N.J., Va.	Leaves	6	0	0	0
	Kans., Nebr., N.J., N.C., U.P., Va.	Whole	12	0	0	0
P. persicaria L. (spotted ladysthumb)	N.C.	Leaves	1	0		
	U.P.	Whole	1	.30		

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Polygonum (knotweed), POLYGONACEAE.--Continued			Number	Percent	Percent	Percent
P. portoricense Bertero (Puerto Rico smartweed).	N.J.	Whole	1	.04		
P. punctatum Ell. (dotted smartweed)	Fla., N.C.	Leaves	3	0	0	0
	Fla.	Whole	1	0		
P. ramosissimum Michx. (bushy smartweed)	Kans.	Whole	4	0	0	0
P. sagittatum, See *Tracaulon sagittatum*.						
P. scandens L. (hedge cornbind)	N.J.	Whole	1	.09		
P. setaceum Baldw. (bristly smartweed).	Ga.	Whole	1	0		
P. sieboldii. See *P. cuspidatum*.						
P. tenue Michx. (slim knotweed)	N.J.	Leaves	1	0		
P. virginianum, See *Tovara virginiana*.						
Polygonum sp.	Fla., Kans., N.J., S.C., U.P.	Leaves	10	0	0	0
	Fla.	Stems	2	0	.03	.02
	Calif., Colo., Fla., Kans., Nebr., N.J., N.C., Oreg., U.P., Utah, Va.	Whole	85	0	.02	Tr
Polymnia (leafcup), COMPOSITAE.						
P. canadensis L. (white leafcup)	Tenn.	Leaves	1	1.03		
P. canadensis radiata A. Gray	Ala.	Leaves	1	2.19		
P. uvedalia L. (yellow leafcup)	Fla., Ga., N.C., S.C.	Leaves	7	.17	2.75	1.32
	N.C.	Whole	1	1.57		
Polymniastrum. See *Polymnia*.						
Polypodium (polypody), POLYPODIACEAE.						
P. aureum L. (golden polypody)	Fla.	Whole	3	0	.02	.01
P. phyllitides L. (strap polypody)	Fla.	Leaves	1	.16		
P. polypodioides (L.) Walt. (resurrectionfern).	Fla.	Whole	1	.43		
Polyporus (polyporus), POLYPORACEAE.						
P. betulinus (Bul.) Fr. (birch polyporus).	N.J.	Whole	1	.02		
Polypremum, LOGANIACEAE.						
P. procumbens L.	Ga.	Leaves	1	0		
	Fla.	Whole	7	0	.45	.20
	Fla.	?	1	0		
Polypremum sp.	Fla.	?	1	0		
Polypteris (polypteris), COMPOSITAE.						
P. integrifolia Nutt. (altamaha polypteris).	Fla.	Leaves	1	0		
Polypteris sp.	Fla.	Whole	1	0		

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Polyscias (polyscias), ARALIACEAE.			Number	Percent	Percent	Percent
P. guilfoylei (Bull.) Bailey (Guilfoyl polyscias).	Fla.	Leaves	2	0	.30	.15
	Fla.	Stems	2	0	.12	.06
Polystichum (hollyfern), POLYPODIACEAE.						
P. acrostichoides (Michx.) Schott (Christmasfern).	N.J., N.C.	Leaves	2	0	0	0
Polystichum sp.---------------------------	Wash.	Whole	1	0		
Polytrichum (haircapmoss), POLYTRICHACEAE.						
Polytrichum sp.---------------------------	N.J.	Whole	1	0		
Poncirus (trifoliate-orange), RUTACEAE.						
P. trifoliatus (L.) Raf. (trifoliate-orange).	Fla.	Whole	1	0		
Pontederia (pickerelweed), PONTEDERIACEAE.						
P. cordata L. (pickerelweed)-------------	Fla., N.J.	Leaves	3	0	.18	.06
	Fla.	Whole	1	.08		
	Fla.	?	1	0		
Populus (aspen; poplar; cottonwood), SALICACEAE.						
P. alba L. (white poplar)----------------	Fla., Ga.	Leaves	2	0	0	0
	Nebr.	Whole	1	0		
P. deltoides Bartr. ex Marsh (eastern poplar).	Fla., N.C., S.C.	Leaves	7	0	0	0
P. heterophylla L. (swamp poplar)---------	S.C.	Leaves	1	0		
P. nigra italica Muench. (black poplar)---	Ga.	Leaves	1	0		
P. tremuloides Michx. (quaking aspen)-----	N.J.	Leaves	1	0		
Populus sp.-------------------------------	Fla., Ga., Nebr., N.J., U.P.	Leaves	6	0	0	0
	N.J., Wash.	Whole	2	0	.18	.09
Porteranthus. See *Gillenia*.						
Portulaca (portulaca), PORTULACACEAE.						
P. grandiflora Hook. (common portulaca).	Ala.	Leaves	1	0		
P. oleracea L. (common purslane)----------	N.J.	Leaves	1	Tr		
	Fla.	Whole	6	0	.03	Tr
P. parvula A. Gray------------------------	Tex.	Whole	1	0		
P. pilosa L. (shaggy portulaca)-----------	Fla.	Whole	1	0		
Portulaca sp.-----------------------------	Nebr., U.P.	Whole	5	0	0	0
	Fla.	?	2	0	0	0

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
			Number	Percent	Percent	Percent
Potamogeton (pondweed), POTAMOGETONACEAE.						
Potamogeton sp.	Fla.	?	1	0		
Potentilla (cinquefoil), ROSACEAE.						
P. anserina concolor Ser.	U.P.	Whole	1	0		
P. fruticosa L. (bush cinquefoil)	N.J.	Leaves	1	Tr		
P. monspeliensis L.	N.C.	Leaves	1	0		
	Fla., N.J.	Whole	3	0	.03	.02
P. recta L. (sulfur cinquefoil)	N.J.	Leaves	2	Tr	Tr	Tr
Potentilla sp.	Kans., Mont., U.P.	Whole	5	0	0	0
Prenanthes (rattlesnakeroot), COMPOSITAE.						
P. alba L. (white rattlesnakeroot)	N.J.	Whole	2	.17	.21	.19
P. altissima L.	Va., W.Va.	Leaves	2	0	.25	.12
P. serpentaria Pursh	N.C.	Leaves	1	0		
P. trifoliata (Cass.) Fern. (threeleaf rattlesnakeroot).	N.J., Va.	Leaves	2	0	Tr	Tr
	N.J., Va.	Whole	6	0	.37	.15
Prenanthes sp.	Ga., N.J., N.C.	Leaves	10	0	.13	.02
	Pa., S.C., Va.	Whole	5	0	.41	.08
Proserpinaca (mermaidweed), HALORAGACEAE.						
P. palustris L. (marsh mermaidweed)	Fla., N.J.	Whole	4	0	0	0
P. pectinata Lam. (combleaf mermaidweed)	Fla.	Whole	3	0	0	0
Proserpinaca sp.	Fla.	?	2	0	0	0
Prosopis (mesquite), LEGUMINOSAE.						
P. juliflora glandulosa (Torr.) Cockerell (honey mesquite).	Tex.	Leaves	1	0		
Prosopis sp.	Nev.	Whole	1	0		
Prunella (selfheal), LABIATAE.						
P. vulgaris L. (common selfheal)	Ga., N.J., N.C., Tenn.	Leaves	7	0	1.17	.40
	Ga., N.J., N.C., Va., W.Va.	Whole	8	0	.35	.09
Prunus, ROSACEAE.						
P. americana Marsh (American plum)	Ga.	Leaves	1	0		
P. angustifolia Marsh (chickasaw plum)	Ga., N.C., S.C., Va.	Leaves	4	0	0	0
P. caroliniana (Mill.) Ait. (Carolina laurelcherry).	Fla., Ga.	Leaves	4	0	0	0
P. geniculata Harper	Fla.	Leaves	1	0		
P. injucunda, See *P. umbellata injucunda*						

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Prunus, ROSACEAE.--Continued			Number	Percent	Percent	Percent
P. laurocerasus L. ? (common laurelcherry).	Ga.	Leaves	1	0		
P. maritima Wang. (beach plum)	N.J.	Leaves	1	0		
P. persica (L.) Bartsch. (peach)	Fla., Ga., N.J., S.C.	Leaves	5	0	0	0
P. serotina Ehrh. (black cherry)	Fla., Ga., N.J., N.C., S.C.	Leaves	17	0	.25	.03
P. sphaerocarpa Sw.	Fla.	Leaves	1	0		
P. umbellata Ell. (flatwoods plum).	Fla., S.C.	Leaves	6	0	0	0
P. umbellata injucunda (Small) Sarg. ?	Ga.	Leaves	1	0		
P. virginiana L. (common chokecherry)	N.J.	Leaves	3	Tr	Tr	Tr
Prunus sp.	Fla., Ga., Kans., Nebr., N.C., U.P.	Leaves	11	0	.43	.04
	Fla.	Stems	1	.07		
	Kans., Minn., Nebr., U.P.	Whole	9	0	0	0
	Fla.	?	2	0	0	0
Psidium (guava), MYRTACEAE.						
P. guajava L. (common guava)	Fla.	Leaves	5	0	.06	.01
	Fla.	Stems	4	0	.04	.01
Psidium sp.	Fla.	Leaves	3	0	.04	.01
	Fla.	Stems	2	0	.03	.02
Psilocarya (baldrush), CYPERACEAE.						
P. nitens (Vahl) Wood (shiny baldrush)	N.C.	Whole	1	0		
Psilotum, PSILOTACEAE.						
P. nudum (L.) Griseb.	Fla.	Whole	1	0		
Psoralea (scurfpea), LEGUMINOSAE.						
P. canescens Michx. (hoary scurfpea).	Fla.	Leaves	4	0	.33	.08
	Fla.	Stems	1	.14		
	Fla.	Whole	1	0		
P. lupinellus Michx.	Fla.	Whole	1	0		
P. pedunculata (Mill.) Vail.	Ga.	Whole	1	0		
P. tenuiflora Pursh ? (slimflower scurfpea).	Colo.	Whole	1	.05		
Psoralea sp.	Colo., Kans., Nebr., U.P.	Whole	11	0	0	0
Psychotria (wildcoffee), RUBIACEAE.						
P. bahamensis Millsp. ? (Bahama wildcoffee).	Fla.	Leaves	1	1.63		
	Fla.	Stems	1	0		
P. nervosa Sw. (St. Johns wildcoffee).	Fla.	Leaves	1	1.42		
	Fla.	Stems	1	0		

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Psychotria (wildcoffee), RUBIACEAE.--Continued			Number	Percent	Percent	Percent
P. sulzneri Small (Sulzner wildcoffee)---	Fla.	Leaves	6	0	2.16	.75
	Fla.	Stems	3	0	.14	.05
	Fla.	Whole	1	.23		
	Fla.	?	1	Tr		
P. undata Jacq. (Seminole wildcoffee)----	Fla.	Leaves	4	.75	1.91	1.53
	Fla.	Stems	2	.10	.67	.38
Psychotria sp.---------------------------	Fla.	Leaves	5	.35	1.45	1.05
	Fla.	Stems	3	0	0	0
	Fla.	?	3	.85	1.56	1.13
Ptelea (hoptree), RUTACEAE.						
P. trifoliata L. (common hoptree)--------	Fla.	Leaves	2	0	0	0
	Fla.	Seeds	1	0		
Ptelea sp.-------------------------------	Fla.	Leaves	1	0		
Pteridium (bracken), POLYPODIACEAE.						
P. aquilinum (L.) Kuhn. var.-------------	Wash.	Whole	1	0		
P. caudatum (L.) Maxon (tailed bracken).	Fla.	Leaves	2	0	.27	.14
	Fla.	Stems	1	0		
	Fla.	Whole	5	0	.15	.03
P. latiusculum (Desv.) Hieron. (eastern bracken).	N.J., N.C.	Whole	2	0	.09	.04
	Fla.	?	1	0		
Pteridium sp.----------------------------	Wash.	Whole	1	0		
Pteris (brake), POLYPODIACEAE.						
Pteris sp.-------------------------------	Fla.	Leaves	1	.05		
Pterocaulon, COMPOSITAE.						
P. pycnostachyum (Michx.) Ell.-----------	Fla.	Leaves	5	.56	5.60	2.23
	Fla.	Stems	1	.75		
	Fla.	Whole	5	.49	1.79	.88
	Fla.	?	1	Tr		
Pterophyton. See Verbesina.						
Ptilimnium (mockbishopweed), UMBELLIFERAE.						
P. capillaceum (Michx.) Raf.-------------	Fla.	Leaves	1	Tr		
	Fla.	Stems	1	0		
	Fla.	Whole	2	0	.10	.05
Ptilimnium sp.---------------------------	Fla.	Leaves	1	0		
	Fla.	Whole	1	0		
	Fla.	?	1	0		
Ptiloria. See Stephanomeria.						
Pueraria (kudzubean: kudzuvine), LEGUMINOSAE.						
P. thunbergiana (Sieb. & Zucc.) Benth. (Thunberg kudzubean).	Fla.	Leaves	2	0	0	0

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
			Number	Percent	Percent	Percent
Punica (pomegranate), PUNICACEAE.						
P. granatum L. (common pomegranate)------	Fla.	Leaves	1	1.30		
Pycnanthemum (mountainmint), LABIATAE.						
P. aristatum Michx.----------------------	Fla.	Leaves	3	.59	1.37	.98
P. flexuosum (Walt.) BSP (slender mountainmint).	N.J., Tenn.	Leaves	2	Tr	.67	.34
	Ga., N.J., N.C., Va.	Whole	9	0	.93	.29
	N.J.	?	2	1.71	1.71	1.71
P. incanum (L.) Michx. (Atlantic mountainmint).	N.J.	Leaves	2	0	Tr	
	N.J.	?	1	1.22		
P. muticum (Michx,) Pers. ---------------	Fla.	Leaves	1	.85		
	N.J.	?	1	1.82		
P. pycnanthemoides (Leavenw.) Fern.	Fla., N.C., Va., W.Va.	Leaves	7	0	1.49	.78
P. virginianum (L.) Durand & Jackson (Virginia mountainmint).	N.J.	Leaves	1	1.28		
	N.J.	Whole	2	.32	.51	.42
	N.J.	?	3	1.71	2.36	2.11
Pycnanthemum sp.-------------------------	Va.	Leaves	1	.91		
	Ala., N.J.	Whole	2	.25	.95	.60
	N.J.	?	1	2.19		
Pycnodoria, POLYPODIACEAE.						
P. pinetorum Small-----------------------	Fla.	Whole	1	0		
Pycnothymus, LABIATAE.						
P. rigidus (Bart.) Small-----------------	Fla.	Leaves	1	Tr		
	Fla., ?	Whole	9	0	1.68	.91
	Fla.	?	1	1.71		
Pyrostegia, BIGNONIACEAE.						
P. venusta (Ker) Baill.------------------	Fla.	Leaves				
		old	1	5.93		
		young + flowers	1	.36		
	Fla.	Stems	1	.09		
Pyrrhopappus, COMPOSITAE.						
P. carolinianus (Walt.) DC---------------	Fla., S.C.	Whole	5	0	.51	.18
	Fla.	?	1	0		
Pyrrhopappus sp.-------------------------	Okla.	Whole	1	.19		
Pyrularia (oilnut), SANTALACEAE.						
P. pubera Michx. (Allegheny oilnut)------	N.C., Va.	Leaves	2	0	0	0
Pyrus (pear), ROSACEAE.						
P. communis L. (common pear)-------------	Fla., Ga.	Leaves	2	0	0	0
Quamoclit (starglory), CONVOLVULACEAE.						
Q. coccinea (L.) Moench (scarlet starglory).	Ga.	Leaves	1	.46		
	Fla.	Whole	1	0		

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Quercus (oak), FAGACEAE.			Number	Percent	Percent	Percent
Q. alba L. (white oak)--------------------	Ga., S.C.	Leaves	2	0	0	0
Q. borealis Michx. (northern red oak)-----	N.C., S.C.	Leaves	2	0	0	0
Q. brevifolia. See *Q. incana*.						
Q. catesbaei. See *Q. laevis*.						
Q. chapmani Sarg. (Chapman oak)-----------	Fla.	Leaves	5	0	0	0
Q. cinerea. See *Q. incana*.						
Q. falcata Michx. (southern red oak; Spanish oak).	Fla., N.C.	Leaves	2	0	0	0
Q. geninata. See *Q. virginiana geminata*.						
Q. hybrid (with *Q. incana* in it)----------	Fla.	Leaves	1	0		
Q. incana Bartr. (bluejack oak)-----------	N.C.	Leaves	1	0		
Q. laevis Walt. (turkey oak)--------------	Fla.	Leaves	3	0	0	0
Q. laurifolia Michx. (laurel oak)---------	Fla., Ga.	Leaves	10	0	0	0
	Fla.	Stems	5	0	0	0
Q. lyrata Walt.---------------------------	Ga.	Leaves	1	0		
Q. margaretta. See *Q. stellata margaretta*.						
Q. marilandica Muench. (blackjack oak)----	Ga., N.J., S.C.	Leaves	4	0	0	0
Q. maxima. See *Q. borealis*.						
Q. michauxii. See *Q. prinus*.						
Q. minima. See *Q. virginiana dentata*.						
Q. montana Willd. (chestnut oak)----------	S.C.	Leaves	1	0		
Q. nigra L. (water oak)------------------	Ala., Fla., Ga., S.C.	Leaves	21	0	.79	.04
	Fla.	Stems	3	0	.03	.01
Q. phellos L. (willow oak)----------------	Fla., Ga., N.C., S.C.	Leaves	9	0	0	0
Q. prinus L. (swamp chestnut oak)---------	Fla., Ga., N.C., S.C.	Leaves	5	0	0	0
Q. pumila Walt.---------------------------	Fla., S.C	Leaves	8	0	0	0
	Fla.	Stems	3	0	0	0
Q. pungens Liebm.-------------------------	N.Mex.	Whole	1	0		
Q. rubra De Rois. See *Q. borealis*.						
Q. stellata Wang. (post oak)--------------	Fla., N.C., S.C.	Leaves	3	0	0	0
Q. stellata margaretta (Ashe) Sarg. (dwarf post oak).	Fla.	Leaves	1	0		
Q. velutina Lam. (black oak)--------------	Fla., N.C., S.C.	Leaves	3	0	0	0

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Quercus (oak), FAGACEAE.--Continued			Number	Percent	Percent	Percent
Q. virginiana Mill. (live oak)------------	Fla., Ga., La., S.C.	Leaves	21	0	.76	.05
	Fla.	Stems	9	0	.05	.01
Q. virginiana dentata Chapm.--------------	Fla.	Leaves	1	0		
	Fla.	Whole	1	0		
Q. virginiana geminata (Small) Sarg. (sand live oak).	Fla., Ga.	Leaves	11	0	0	0
	Fla.	Stems	1	0		
Quercus sp.-------------------------------	Fla., Ga., La., N.C., S.C.	Whole	14	0	.63	.37
	Fla.	Bark	2	0	0	0
Quisqualis (quisqualis), COMBRETACEAE.						
Q. indica L. (Rangoon creeper)------------	Fla.	Leaves	2	.20	1.70	.95
	Fla.	Stems	1	.20		
Radicula armoracia. See Armoracia lapathifolia.						
R. nasturtium-aquaticum. See Rorippa nasturtium-aquaticum.						
R. palustris. See Rorippa palustris.						
Raimannia, See Oenothera.						
Randia (randia), RUBIACEAE.						
R. aculeata L.----------------------------	Fla.	Leaves	10	Tr	2.82	1.41
	Fla.	Stems	4	0	0	0
	Fla.	?	3	Tr	2.42	1.33
Ranunculus (buttercup), RANUNCULACEAE.						
R. acris L. (tall buttercup)--------------	N.J., N.C.	Leaves	2	0	0	0
R. septentrionalis Poir. ?----------------	Tenn.	Whole	1	0		
Ranunculus sp.----------------------------	U.P.	Whole	1	0		
Rapanea (rapanea), MYRSINACEAE.						
R. guaianensis Aubl. (Guiana rapanea).	Fla.	Leaves	8	0	.73	.09
	Fla.	Stems	4	0	0	0
	Fla.	Bark	1	0		
	Fla.	Root bark	1	0		
	Fla.	?	2	0	0	0
Rapanea sp.-------------------------------	Fla.	Leaves	1	0		
Raphanus (radish), CRUCIFERAE.						
R. raphanistrum L. (wild radish)----------	N.J.	Whole	1	Tr		
R. sativus L. (garden radish)-------------	Fla.	Whole	1	0		
Ratibida (prairieconeflower), COMPOSITAE.						
R. columnaris (Sims.) D. Don (upright prairieconeflower).	Kans., Nebr., U.P., Wyo.	Leaves	21	0	.02	Tr

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Ratibida (prairieconeflower), COMPOSITAE.--Continued			Number	Percent	Percent	Percent
R. tagetes (James) Barnh.	Colo., N.Mex.	Whole	3	0	.45	.23
Ratibida sp.	Colo., U.P.	Whole	3	0	.25	.08
Reseda (mignonette), RESEDACEAE.						
R. lutea L. (yellow mignonette)	N.J.	Whole	1	0		
Rhabdadenia, APOCYNACEAE.						
R. biflora (Jacq.) Muell.-Arg.	Fla.	Leaves	5	.08	3.29	1.50
	Fla.	Stems	4	0	0	0
	Fla.	Whole	3	.41	1.07	.64
	Fla.	?	2	Tr	.57	.29
R. corallicola Small	Fla.	Leaves	2	2.39	3.15	2.77
	Fla.	Stems	1	.06		
	Fla.	Whole	1	1.17		
Rhabdadenia sp.	Fla.	Leaves	1	Tr		
	Fla.	?	1	.71		
Rhacoma (rhacoma), CELASTRACEAE						
R. crossopetalum L. (Maravedi rhacoma).	Fla.	Leaves	1	.28		
	Fla.	Stems	1	0		
	Fla.	?	1	2.27		
R. ilicifolium (Poir.) Trel.	Fla.	Whole	2	.75	.76	.76
Rhamnus (buckthorn), RHAMNACEAE.						
R. caroliniana Walt. (Carolina buckthorn).	Fla.	Leaves	2	0	0	0
R. cathartica L. (common buckthorn)	Va.	Leaves	1	0		
Rhamnus sp.	Fla.	Leaves	1	0		
Rheum (rhubarb), POLYGONACEAE.						
R. rhaponticum L. (garden rhubarb).	N.C.	Whole	1	0		
Rhexia (meadowbeauty), MELASTOMACEAE.						
R. alifanus Walt.	Fla., N.C.	Leaves	4	.31	.54	.43
	S.C.	Whole	1	.51		
R. ciliosa Michx.	Fla.	Leaves	1	1.71		
R. cubensis Griseb.	Fla.	Leaves	1	0		
	Fla.	Whole	1	.07		
R. lutea Walt. (yellow meadowbeauty)	N.C.	Whole	1	.52		
R. mariana L. (Maryland meadowbeauty)	Fla.	Leaves	3	.53	3.30	1.67
	Fla., S.C., Va.	Whole	4	.17	.87	.56
R. serrulata Nutt.	Fla.	Whole	2	.05	.95	.50
R. stricta Pursh	Fla.	Leaves	1	.41		
R. virginica L. (common meadowbeauty)	Ga., N.J.	Leaves	2	Tr	.68	.34
	N.J., N.C.	Whole	2	Tr	.53	.26
Rhexia sp.	Fla.	Leaves	3	Tr	.99	.59
	Fla., Ga.	Whole	4	.47	1.32	1.08

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Rhizophora (mangrove), RHIZOPHORACEAE.			Number	Percent	Percent	Percent
R. mangle L. (American mangrove)	Fla.	Leaves	7	0	.45	.06
	Fla.	Stems	6	0	.04	.01
	Fla.	Berries	1	0		
	Fla.	?	1	Tr		
Rhododendron (rhododendron), ERICACEAE.						
R. canescens (Michx.) Sw. (Piedmont azalea).	Ga., N.C., S.C.	Leaves	4	0	.02	Tr
R. maximum L. (rosebay rhododendron)	N.J., S.C., Va., W.Va.	Leaves	4	0	0	0
R. nudiflorum (L.) Torr. (Pinxterbloom azalea).	N.J., Va.	Leaves	3	0	Tr	Tr
R. serrulatum Millais (hammocksweet azalea).	Fla.	Leaves	2	0	0	0
R. viscosum (L.) Torr. (swamp azalea)	Fla., Va.	Leaves	2	0	0	0
R. viscosum (L.) Torr. var.	N.J.	Leaves	1	0		
Rhododendron sp.	Fla., N.J., N.C., S.C., Va.	Leaves	9	0	0	0
	N.J.	Whole	1	.05		
Rhus (sumac), ANACARDIACEAE						
R. aromatica Ait. (fragrant sumac)	Ga.	Leaves	1	0		
R. copallina L. (flameleaf sumac)	Fla., Ga., N.C., S.C., Va.	Leaves	14	0	1.85	.13
	Fla.	Stems	2	0	0	0
	Fla.	Whole	2	0	.01	Tr
R. glabra L. (smooth sumac)	Ga., Kans., Nebr., N.C., N.J., Okla., S.C., U.P., Va., W.Va.	Leaves	16	0	0	0
	Kans., Nebr., N.J., U.P., Wash.	Whole	11	0	.03	Tr
R. hirta. See R. typhina.						
R. radicans. See Toxicodendron, radicans.						
R. trilobata Nutt. (skunkbush sumac)	Nebr., Tex.	Whole	2	0	0	0
R. typhina (L.) Torner (staghorn sumac).	W.Va.	No test.				
R. vernix. See Toxicodendron vernix.						
Rhus sp.	Fla., Kans.	Leaves	3	0	0	0
	U.P.	Whole	3	0	0	0
Rhynchosia (rhynchosia), LEGUMINOSAE.						
R. cinerea Nash	Fla.	Whole	1	0		
R. erecta (walt.) DC. (erect rhynchosia)	Ga.	Leaves	2	0	.04	.02

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Rhynchosia (rhynchosia), LEGUMINOSAE--Continued			Number	Percent	Percent	Percent
R. minima (L.) DC. (least rhynchosia).	Fla.	Stems	1	0		
	Fla.	Whole	3	0	0	0
	Fla.	?	1	.49		
R. parvifolia DC.	Fla.	Whole	1	.01		
R. simplicifolia (Walt.) Wood. (dollarleaf rhynchosia).	Fla.	Whole	1	0		
Rhynchosia sp.	Fla.	Whole	1	.10		
Rhynchospermum, See *Trachelospermum*.						
Rhynchospora (breakrush), CYPERACEAE.						
R. axillaris (Lam.) Britt.	N.C., S.C.	Whole	2	0	0	0
R. corniculata (Lam.) A. Gray (horned breakrush).	Fla.	Whole	1	0		
R. schoenoides (Ell.) Britt.	S.C.	Whole	1	0		
Rhynchospora sp.	Fla.	Whole	3	0	.50	.17
Ribes (currant: gooseberry), SAXIFRAGACEAE.						
R. aureum Pursh ? (golden currant).	N.J.	Leaves	1	0		
R. cynobasti L. (pasture gooseberry).	N.C.	Leaves	1	0		
R. gracile Michx. See *R. cynobasti*.						
R. oxyacanthoides L. (Canada gooseberry).	N.J.	Leaves	1	0		
R. sativum Syme ? (common red currant)	N.J.	Leaves	1	0		
Ribes sp.	N.J.	Leaves	1	0		
	N.Mex.	Top stems	1	0		
	Nebr., U.P.	Whole	13	0	0	0
Richardia (mexicanclover), RUBIACEAE.						
R. scabra L. (mexicanclover)	Fla., Ga.	Leaves	3	.81	.88	.84
	Fla., N.C., S.C.	Whole	8	.11	1.26	.68
	Fla.	?	1	.85		
Ricinus (castorbean), EUPHORBIACEAE						
R. communis L. (castorbean)	Fla., Ga.	Leaves	3	0	0	0
	Kans.	Whole	1	0		
	Fla.	?	1	0		
Riedlea, STERCULIACEAE						
R. hirsuta (Cav.) DC.	Fla.	Whole	1	.09		
Rivina (rougeplant), PHYTOLACCACEAE						
R. humilis L. (bloodberry rougeplant).	Fla.	Leaves	7	0	.26	.04
	Fla.	Stems	5	0	.19	.04
	Fla.	?	3	0	0	0

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Robinia (locust), LEGUMINOSAE			Number	Percent	Percent	Percent
R. hispida Vent. (rose-acacia locust)-----	Ga.	Leaves	1	0		
R. pseudoacacia L. (black locust)---------	Ga., N.J., N.C., S.C., Va.	Leaves	8	0	0	0
Robinia sp.-------------------------------	U.P.	Leaves	1	0		
	Kans., Wash.	Whole	2	0	0	0
Rorippa, CRUCIFERAE						
R. armoracia, See Armoracia lapathifolia.						
R. nasturtium-aquaticum (L.) Hayek. (watercress).	N.J., N.C.	Leaves	2	0	0	0
	Va.	Whole	2	0	0	0
R. palustris (L.) Bess. (bog marshcress).	N.J.	Leaves	1	0		
	N.J.	Whole	1	0		
Rorippa sp.-------------------------------	Colo., Fla.	Whole	2	0	0	0
Rosa (rose), ROSACEAE						
R. carolina L. (Carolina rose)------------	N.J., W.Va.	Whole	2	0	.06	.03
R. carolina glandulosa (Crep.) Rehd. (Rehder Carolina rose).	Fla.	Leaves	1	0		
R. palustris Marsh (swamp rose)-----------	N.C., Va.	Leaves	3	0	0	0
R. serrulata, See R. carolina glandulosa.						
R. virginiana Mill.? (Virginia rose)------	N.Y.	No test.				
Rosa sp.----------------------------------	Nebr., N.J.	Leaves	2	0	Tr	Tr
	Colo., Idaho, Kans., Minn., Nebr., N.J., U.P., Utah, Wash.	Whole	29	0	.19	.02
	Fla.	?	1	0		
Rosmarinus (rosemary), LABIATAE						
R. officinalis L. (rosemary)--------------	Ga.	Leaves	1	.46		
Rotala (rotala), LYTHRACEAE						
R. ramosior (L.) Koehn. (rotala)----------	Fla.	Whole	2	0	0	0
Rubacer, See Rubus.						
Rubus (blackberry, dewberry; raspberry), ROSACEAE.						
R. cuneifolius Pursh (sand blackberry).	Fla.	Leaves	5	0	0	0
	Fla.	Stems	1	0		
	Fla.	Whole	1	0		
R. occidentalis L. (blackcap raspberry).	S.C.	Leaves	1	0		
R. odoratus L. (fragrant thimbleberry).	N.J., N.C.	Leaves	4	0	0	0
	N.J.	Whole	1	.04		

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Rubus (blackberry, dewberry; raspberry), ROSACEAE--Continued			Number	Percent	Percent	Percent
R. trivialis Michx. (southern dewberry)---	Fla.	Leaves	1	0		
	Fla.	Stems	1	.29		
	Fla.	Whole	2	0	0	0
Rubus sp.---------------------------------	Ga., N.J., S.C.	Leaves	5	0	.27	.05
	Nebr., N.J., Oreg., U.P., Wash.	Whole	6	0	.27	.04
	Fla.	?	1	0		
Rudbeckia (coneflower), COMPOSITAE						
R. brittonii Small------------------------	N.C.	Leaves	1	0		
R. hirta L. (blackeyedsusan)--------------	Fla., Ga., N.J.	Leaves	5	0	Tr	Tr
	Fla.	Fruit	1	0		
	N.J., S.C.	Whole	3	0	.33	.14
	Fla.	?	1	Tr		
R. laciniata L. (cutleaf coneflower)------	Fla., Ga., N.J., N.Y., N.C., Va.	Leaves	9	0	3.60	1.36
	N.C.	Stems	1	0		
	Kans., Utah	Whole	2	.10	1.21	.66
	N.J., N.C.	?	5	Tr	2.74	1.73
R. laciniata L. var. (goldenglow)---------	S.C.	Leaves	1	2.75		
R. triloba L. (browneyedsusan)------------	Fla., N.J.	Leaves	3	0	0	0
	N.J.	Whole	1	0		
Rudbeckia sp.------------------------------	S.C.	Leaves	1	0		
	Fla., U.P.	Whole	3	0	.13	.05
	Fla.	?	2	Tr	Tr	Tr
Ruellia (ruellia), ACANTHACEAE						
R. caroliniensis parviflora (Nees) Blake.	Fla.	Leaves	2	1.09	1.56	1.32
	Fla.	Whole	10	0	2.55	.62
R. spectabilis Britt.---------------------	Fla.	Leaves	1	2.64		
R. succulenta Small-----------------------	Fla.	Whole	2	.68	.72	.70
Ruellia sp.--------------------------------	Fla.	Leaves	4	Tr	2.28	.83
	Fla.	Whole	1	.39		
	Fla.	?	1	Tr		
Rufacer, See Acer.						
Rumex (dock; sorrel), POLYGONACEAE						
R. acetosella L. (sheep sorrel)-----------	N.J.	Leaves	1	0		
	Fla., N.J.	Whole	2	0	0	0
R. britannica L. (great dock)-------------	N.J.	Leaves	1	0		
R. crispus L. (curly dock)----------------	N.J.	Leaves	1	0		
	Fla.	Whole	2	0	.03	.02
R. hastatulus Baldw. (heartwing sorrel)---	Fla.	?	1	0		
R. obtusifolius L. (bitter dock)----------	N.J., Va.	Leaves	2	0	0	0
	Fla., N.J.	Whole	2	0	.13	.06

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Rumex (dock; sorrel), POLYGONACEAE--Continued.			Number	Percent	Percent	Percent
R. verticillatus L. (swamp dock)	Fla.	Leaves	3	0	.09	.03
	Fla.	Stems	1	0		
	Fla.	Berries	1	0		
	Fla.	Flowers	1	0		
	Fla.	Whole	3	0	0	0
	Fla.	?	1	0		
Rumex sp.	Fla., N.J.	Leaves	2	0	0	0
	Fla.	Stems	1	0		
	Calif., Colo., Fla., Idaho, Kans., La., Mont., Nebr., N.Y., U.P., Utah, Wash.	Whole	48	0	0	0
Russelia (coralblow), SCROPHULARIACEAE.						
R. equisetiformis Schlecht. & Cham. (coralplant).	Fla.	Whole	1	0		
Sabal (palmetto), PALMACEAE						
Sabal sp.	Fla.	Leaves	1	.50		
Sabatia (also *Sabbatia*) (rosegentian), GENTIANACEAE.						
S. angularis (L.) Pursh (squarestem rosegentian).	Fla., N.C., S.C.	Whole	3	0	.93	.31
S. calycina (Lam.) Heller	Fla.	Whole	1	.20		
S. campanulata (L.) Torr.	Fla.	Whole	4	0	.08	.04
S. decandra (Walt.) Harper	Fla.	Whole	2	0	0	0
S. difformis (L.) Druce	Fla.	Leaves	1	0		
	Fla.	Whole	2	0	0	0
S. elliottii Steud.	Fla.	Whole	1	0		
Sabatia sp.	Fla.	Leaves	2	0	0	0
	N.C.	Whole	1	0		
	Fla.	?	3	0	Tr	Tr
Saccharodendron, See *Acer*.						
Sageretia (sageretia), RHAMNACEAE						
S. minutiflora (Michx.) Trel. (gulfcoast sageretia).	Fla.	Leaves	7	0	Tr	Tr
	Fla.	Stems	2	0	0	0
Sagittaria (arrowhead), ALISMACEAE						
S. angustifolia Lindl. (narrowleaf arrowhead).	Fla.	Whole	1	0		
S. lancifolia L. (bulltongue arrowhead).	Fla.	Leaves	3	0	0	0
	Fla.	Whole	3	0	0	0
S. latifolia Willd. (common arrowhead).	N.J.	Leaves	1	0		
	Fla.	Whole	3	0	0	0
S. pubescens Muhl. (downy arrowhead)	Ga.	Leaves	1	0		

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Sagittaria (arrowhead), ALISMACEAE--Continued			Number	Percent	Percent	Percent
S. stagnorum Small------------------------	Fla.	Whole	1	0		
Sagittaria sp.----------------------------	Fla., N.C.	Whole	2	0	0	0
	Fla.	?	1	0		
Salicornia (glasswort), CHENOPODIACEAE.						
S. perennis Mill. (woody glasswort)-------	Fla.	Whole	4	0	.01	Tr
	Fla.	?	1	.14		
Salicornia sp.----------------------------	U.P.	Whole	1	0		
Salix (willow), SALICACEAE						
S. alba L. ? (white willow)---------------	N.J.	Whole	1	.43		
S. babylonica L. (Babylon weeping willow)-	N.J.	Whole	1	.39		
S. cordata Muhl. (heartleaf willow)-------	N.J.	Leaves	1	0		
	N.J.	Whole	1	.35		
S. discolor Muhl. (pussy willow)----------	N.J.	Leaves	2	0	Tr	Tr
S. humilis Marsh (prairie willow)---------	Ga., N.J., N.C., Va.	Leaves	6	0	0	0
S. longipes Shuttlw. (coastalplain willow.	Fla.	Leaves	8	0	.11	.01
	Fla.	Stems	2	.14	.51	.32
	Fla.	Whole	1	0		
S. nigra Marsh (black willow)-------------	Ga., N.C., S.C.	Leaves	5	0	0	0
S. serissima (Bailey) Fern. (autumn willow).	N.J.	Whole	1	0		
S. tristis Ait. (dwarf pussy willow)------	N.J.	Leaves	2	0	0	0
Salix sp.---------------------------------	Fla., Ga., Idaho, Kans., Mont., Nebr., N.J., N.C., S.C., U.P., Utah	Leaves	16	0	0	0
	Mont.	Stems	1	0		
	Calif., Colo., Nebr., N.J., Oreg., Tex., U.P., Wash.	Whole	29	0	.21	.02
Salsola (Russianthistle), CHENOPODIACEAE.						
S. Kali L. (common Russianthistle)--------	Colo., Fla., Nebr., Nev., Oreg., U.P., Wash.	Whole	16	0	0	0
S. kali tenuifolia F. W. Meyer (tumbling Russianthistle).	Colo., Idaho, Kans., Nebr., U.P., Utah, Wyo.	Whole	37	0	.21	Tr
Salsola sp.-------------------------------	Colo., Kans., U.P., Utah	Whole	15	0	0	0
Salvia (sage), LABIATAE						
S. azurea Lam. (azure sage)---------------	Ala., Fla., Ga.	Leaves	3	1.10	2.03	1.44
S. coccinea L. (Texas sage)---------------	Fla.	Leaves	1	.50		

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Salvia (sage), LABIATAE--Continued						
S. lanceifolia, See *S. reflexa*.						
S. lanceolata, See *S. reflexa*.			Number	Percent	Percent	Percent
S. lyrata L.------------------------------	Fla.	Leaves	3	Tr	.30	.14
	Fla.	Stems	1	.03		
	Fla.	Flowers	1	.04		
	Fla., N.J.	Whole	5	0	.50	.19
	Fla.	?	1	Tr		
S. reflexa Hornem. (lanceleaf sage)-------	Kans., U.P.	Whole	3	0	.44	.21
S. splendens Ker (scarlet sage)-----------	Fla.	Leaves	1	.89		
S. urticifolia L.-------------------------	Fla.	Leaves	1	.67		
Salvia sp.--------------------------------	Colo., Kans., Nebr., U.P.	Whole	11	0	.40	.10
Sambucus (elder), CAPRIFOLIACEAE						
S. canadensis L. (American elder)---------	Fla., Ga., N.J., N.C., S.C., Va.	Leaves	17	Tr	1.57	.80
	N.J.	Whole	3	.07	.40	.22
S. simpsonii Rehd. (Simpson elder)--------	Fla., La.	Leaves	13	1.13	2.87	.99
	Fla.	Stems	7	0	.15	.04
	Fla.	Flowers	1	.18		
	Fla.	?	2	0	Tr	Tr
Sambucus sp.------------------------------	Fla., Ga., La., N.C., S.C., U.P., Va., W.Va.	Leaves	10	0	1.67	.64
	Kans., Nebr., S.C.	Whole	5	0	.55	.11
Sapota, See Manilkara.						
Samolus, PRIMULACEAE						
S. americanus, See *S. valeriandi americanus*.						
S. ebracteatus HBK------------------------	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
	Fla.	Whole	4	0	.03	.01
S. floribundus HBK------------------------	Fla.	Whole	1	0		
	Fla.	?	1	0		
S. valeriandi americanus A. Gray----------	Fla.	Whole	1	.44		
Samolus sp.-------------------------------	Fla.	?	4	0	0	0
Sanguinaria (bloodroot), PAPAVERACEAE.						
S. canadensis L. (bloodroot; puccoon).	N.C., S.C.	Leaves	2	0	0	0
	W.Va.	Whole	1	0		
Sanguisorba (burnet), *ROSACEAE*						
S. canadensis L. (American burnet)--------	N.J.	Leaves	2	Tr	Tr	Tr
Sanicula (sanicle), UMBELLIFERAE						
S. canadensis L. (Canada sanicle)---------	Fla., Va., W.Va.	Whole	3	0	0	0
S. floridana Rickn. (Florida sanicle)-----	Fla.	Leaves	1	0		
	Ga.	Whole	1	0		
S. marilandica L. (black sanicle)---------	N.J.	Leaves	1	0		
	N.J.	Whole	1	0	0	0

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Sansevieria (sansevieria), LILIACEAE			Number	Percent	Percent	Percent
S. thyrsiflora Thunb. (sweet sansevieria).	Fla.	Stems	1	.41		
Santolina (lavendercotton), COMPOSITAE						
S. chamaecyparissus L. (cypress lavendercotton).	Ga.	Whole	1	.74		
Sapindus (soapberry), SAPINDACEAE						
S. marginatus Willd. (Florida soapberry).	Fla.	Leaves	1	0		
S. saponaria L. (southern soapberry)------	Fla.	Leaves	4	0	.19	.06
	Fla.	Stems	4	0	.13	.05
Sapium (sapium), EUPHORBIACEAE						
S. sebiferum (L.) Roxb. (Chinese tallowtree).	Ga.	Leaves	1	0		
Saponaria (soapwort), CARYOPHYLLACEAE.						
S. officinalis L. (bouncingbet)-----------	Ga., N.J., N.C., S.C.	Leaves	5	0	0	0
	N.J., Va.	Whole	3	0	.13	.06
	N.J.	?	1	0		
Sapota achras, See Manilkara sapotilla.						
Sarcobatus (greasewood), CHENOPODIACEAE.						
S. vermiculatus (Hook.) Torr. (black greasewood).	Mont., U.P.	Whole	3	0	0	0
Sarcobatus sp.---------------------------	Idaho, Oreg., U.P., Utah	Whole	5	0	0	0
Sarracenia (pitcherplant), SARRACENIACEAE						
S. drummondii Croom (Drummond pitcherplant).	Fla.	Leaves	1	0		
S. flava L. (Drummond pitcherplant)-------	Fla.	Leaves	1	0		
	S.C.	Whole	1	0		
S. minor Walt. (hooded pitcherplant)-------	Fla., S.C.	Whole	2	0	0	0
S. purpurea L. (common pitcherplant)------	N.J., N.C.	Whole	2	0	0	0
Sassafras (sassafras), LAURACEAE						
S. albidum (Nutt.) Nees (silky sassafras).	Fla., Ga., N.J., N.C., S.C.	Leaves	10	0	0	0
S. albidum molle, See S. albidum						
Satureia (savory), LABIATAE						
S. caroliniana, See Clinopodium georgianum.						
S. coccinea, See Clinopodium coccineum.						

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Satureia (savory), LABIATAE--Continued			Number	Percent	Percent	Percent
S. nepeta (L.) Scheele (catnip savory).	Va.	Whole	2	0	.36	.18
S. rigida, See *Pycnothymus rigidus*.						
S. vulgaris (L.) Fritsch. (wildbasil savory).	N.J.	Leaves	2	Tr	Tr	Tr
	N.J., Va., W.Va.	Whole	6	0	.29	.08
Saururus (lizardtail), SAURURACEAE.						
S. cernuus L. (common lizardtail)--------	Fla., Ga.	Leaves	7	0	1.92	1.03
	Fla.	Stems	3	0	.07	.02
	Fla., Okla., S.C.	Whole	6	.02	1.72	.74
	Fla.	?	2	Tr	.71	.36
Saxifraga (saxifrage), SAXIFRAGACEAE.						
S. leucanthemifolia Michx. (Allegheny saxifrage).	N.C.	Leaves	1	0		
S. pensylvanica L. (Pennsylvania saxifrage).	N.J.	Whole	1	0		
Scabiosa (scabious), DIPSACACEAE.						
S. atropurpurea L. ?--------------------	Fla.	Leaves	1	.03		
	Fla.	Stems	1	.05		
Scaevola, GOODENIACEAE						
S. plumieri Vahl.-----------------------	Fla.	Leaves	7	0	.03	Tr
	Fla.	Stems	4	0	0	0
	Fla.	?	2	0	0	0
Schaefferia, CELASTRACEAE						
S. frutescens Jacq.---------------------	Fla.	?	1	2.14		
Schinus (peppertree), ANACARDIACEAE						
S. terebinthifolius Raddi (Brazil peppertree).	Fla.	Leaves	2	.16	.29	.23
	Fla.	Stems	2	.08	.09	.08
Schmaltzia, See *Rhus*.						
Schoepfia (graytwig), OLACACEAE.						
S. chrysophylloides (A. Rich.) Planch. (gulf graytwig).	Fla	Leaves	4	0	.43	.11
	Fla.	Stems	1	.10		
	Fla.	?	2	0	.85	.42
Schrankia (sensitivebriar), LEGUMINOSAE.						
S. microphylla (Dryand) Standl. (littleleaf sensitivebriar).	Fla., Ga.	Whole	2	0	0	0
Scirpus (bulrush), CYPERACEAE						
S. acutus Muhl. ? (tule bulrush)---------	U.P.	Whole	1	0		
S. cyperinus (L.) Kunth. (woolgrass bulrush).	Va.	Whole	1	0		

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Scirpus (bulrush), CYPERACEAE--Continued			Number	Percent	Percent	Percent
S. eriophorum (L.) Michx.	Fla.	Leaves	1	0		
	Fla.	Seeds	1	0		
	Fla., Ga., S.C.	Whole	3	0	0	0
S. occidentalis, See S. acuta.						
S. paludosus A. Nels.	U.P.	Whole	1	0		
S. polyphyllus Vahl. (leafy bulrush).	N.C.	Whole	1	0		
S. validus Vahl. (softstem bulrush).	Fla., U.P.	Whole	3	0	Tr	Tr
Scirpus sp.	Nebr., U.P., Utah	Whole	4	0	0	0
Scoparia (broomwort), SCROPHULARIACEAE.						
S. dulcis L. (sweet broomwort)	Fla.	Leaves	3	0	2.56	1.09
	Fla.	Stems	1	.42		
	Fla.	Whole	6	0	1.36	.48
	Fla.	?	3	0	0	0
Scrophularia (figwort), SCROPHULARIACEAE.						
S. lanceolata Pursh (lanceleaf figwort).	N.J.	Leaves	1	0		
S. leporella, See S. lanceolata.						
S. marilandica L. (Maryland figwort).	Ga., N.J.	Leaves	5	0	.21	.04
Scutellaria (skullcap), LABIATAE.						
S. altamaha Small	Ala.	Leaves	1	.87		
	Ala.	Flowers	1	0		
S. ambigua Nutt.	N.J.	Leaves	1	Tr		
S. arenicola Small	Fla.	Leaves	5	.24	2.64	1.57
S. galericulata L.	N.J.	Leaves	1	Tr		
S. integrifolia L. (hyssop skullcap).	Ga., N.J.	Leaves	2	1.38	1.91	1.64
	N.J.	Whole	1	Tr		
S. laterifolia L. (sideflowering skullcap).	N.J., N.C.	Leaves	4	Tr	.53	.13
	N.J.	?	1	Tr		
S. multiglandulosa (Kearn.) Small	Fla.	Whole	1	0		
S. ovata Hill	Ala.	Leaves	1	.84		
	Fla., N.C.	Whole	2	.15	.40	.28
S. pilosa Hill, See S. ovata						
Scutellaria sp.	Fla.	Leaves	1	.85		
Sebastiana, EUPHORBIACEAE						
S. ligustrina (Michx.) Muell.-Arg.	Fla.	Leaves	3	0	0	0
Sedum (stonecrop), CRASSULACEAE						
S. telephium purpureum Hort.	N.J.	Leaves	1	Tr		
S. ternatum Michx. (mountain stonecrop)	N.C.	Leaves	1	0		
	Va.	Whole	1	0		
S. triphyllum, See S. telephium purpureum.						
Sedum sp.	Ga., N.J.	Leaves	2	0	Tr	Tr

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Selaginella (selaginella), SELAGINELLACEAE.			Number	Percent	Percent	Percent
Selaginella sp.--------------------------	S.C.	Whole	1	0		
Senecio (groundsel), COMPOSITAE						
S. aureus L. (golden groundsel)----------	N.J., N.C.	Whole	3	Tr	1.20	.75
S. fendleri A. Gray (Fendler groundsel).	N.Mex.	Whole	1	.10		
S. glabellus Poir.-----------------------	Fla.	Whole	3	0	.23	.08
	Fla.	?	1	1.28		
S. lobatus Pers. (crossleaf groundsel).	Fla.	Leaves	1	1.79		
	Fla.	Stems	1	.04		
	Fla.	Flowers	1	.08		
S. longilobus Benth. (threadleaf groundsel).	N.Mex., Tex.	Whole	2	.10	.74	.42
S. multicapitatus Greenm.----------------	N.Mex.	No test				
S. obovatus Muhl.------------------------	W.Va.	Whole	1	.13		
S. ridellii Torr. & Gray (Ridell groundsel).	Tex.	Whole	1	1.90		
S. smallii Britt.	Ga.	Whole	2	.47	.55	.51
S. spartioides Torr. & Gray (broom groundsel).	Colo., U.P.	Whole	2	0	.28	.14
Senecio sp.------------------------------	Ga., Idaho, U.P.	Whole	3	.29	1.25	.64
Sericocarpus, COMPOSITAE.						
S. asteroides (L.) BSP-------------------	Ga., S.C.	Leaves	5	.31	1.76	1.17
	S.C.	Whole	1	0		
	N.J.	?	1	2.22		
S. bifoliatus (Walt.) Porter-------------	Ala., Fla., Ga., S.C.	Leaves	11	Tr	2.50	1.48
	Fla., N.C.	Whole	3	.87	1.56	1.21
	Fla.	?	2	.57	3.27	1.92
S. linifolius (L.) BSP-------------------	Ga.	Leaves	1	.32		
	N.C., Va.	Whole	2	0	.26	.13
Sericocarpus sp.-------------------------	Fla.	?	1	4.77		
Sericotheca, See Holodiscus.						
Sesbania (sesbania), LEGUMINOSAE.						
S. punicea. See Daubentonia punicea.						
Sesbania sp.-----------------------------	Fla.	Leaves	2	0	0	0
	Fla.	?	1	0		
Sesuvium (sesuvium), AIZOACEAE.						
S. portulacastrum L. (purslane sesuvium).	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
	Fla.	Whole	4	0	.05	.01

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Setaria (bristlegrass; millet), GRAMINEAE.			Number	Percent	Percent	Percent
S. lutescens (Weig.) F. T. Hubb. (yellow bristlegrass).	Colo., Fla., Kans., Nebr., U.P.	Whole	19	0	0	0
S. magna Griseb. (giant bristlegrass).	Fla.	Whole	1	0		
Setaria sp.	Idaho, Kans., Nebr., U.P.	Whole	5	0	0	0
Seuteria, ASCLEPIADACEAE						
S. palustris (Pursh) Vail	Fla.	Whole	3	.11	1.84	1.07
Seymeria (seymeria), SCROPHULARIACEAE.						
S. cassioides (Walt.) Blake (senna seymaria).	Ga.	Leaves	1	0		
	Fla.	Whole	2	0	0	0
S. pectinata Pursh	Ala., Fla.	Leaves	2	0	0	
	Fla.	Whole	4	0	.05	0.01
Seymeria sp.	Fla.	Whole	1	0		
Shepherdia (buffaloberry), ELAEAGNACEAE.						
Shepherdia sp.	Nebr., U.P.	Whole	2	0	0	0
Sicyos (burcucumber), CUCURBITACEAE.						
S. angulatus L. (wall burcucumber)	Tenn.	Leaves	1	0		
Sida (sida), MALVACEAE						
S. acuta Burm.	Fla.	Leaves	1	.08		
	Fla.	Whole	1	0		
S. carpinifolia L.f.	Fla.	Leaves	9	0	.44	.07
	Fla.	Stems	3	0	.15	.06
	Fla.	Whole	2	0	.02	.01
S. cordifolia L.	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
S. elliottii Torr. & Gray	Fla.	Whole	2	0	.03	.02
S. rhombifolia L. (broomjute sida)	Fla., Ga., N.C., S.C.	Leaves	7	0	0	0
	Fla.	Whole	2	0	.11	.06
S. spinosa L. (prickly sida)	Va.	Whole	1	0		
Sida sp.	Fla.	Leaves	2	0	0	0
	Fla.	Bark	1	0		
	Fla.	Whole	2	.27	.89	.58
Sideranthus megacephalus, See *Haplopappus phyllocephalus megacephalus*						
Sideroxylon (jungleplum), SAPOTACEAE.						
S. foetidissima Jacq. (mastic jungleplum).	Fla.	Leaves	6	0	2.92	1.82
	Fla.	Stems	6	0	.03	Tr
	Fla.	Whole	1	2.03		
	Fla.	?	1	2.28		

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Silene (silene), CARYOPHYLLACEAE			Number	Percent	Percent	Percent
S. latifolia (L.) Britt. & Rendle (cowbell silene).	N.J.	Leaves	1	0		
	N.J.	Whole	2	0	0	0
S. regia Sims. (royal silene)	Ga.	Leaves	1	0		
S. stellata Ait. (starry silene)	Ga., N.J., S.C., Va.	Leaves	7	0	0	0
Silene sp.	Ga.	No test				
Silphium (rosinweed), COMPOSITAE						
S. astericus L.	Fla.	Leaves	1	Tr		
	Fla.	Whole	1	1.18		
S. compositum Michx.	Fla., Ga., N.C., S.C., Va.	Leaves	8	.62	1.69	1.24
	N.C.	Whole	2	0	1.60	.80
S. integrifolium Michx. ? (wholeleaf rosinweed).	U.P.	Whole	1	0		
S. laciniatum L. (compassplant)	Kans.	Leaves	1	3.50		
	Okla.	Whole	1	.28		
S. mohrii Small	Ga.	Leaves	1	2.18		
S. perfoliatum L. (cup rosinweed)	N.J.	Leaves	1	Tr		
	Kans.	Whole	1	.35		
S. pinnatifidum Ell.	Ga.	Leaves	1	2.08		
S. simpsonii Small	Fla.	Leaves	1	.17		
S. trifoliatum L.	S.C., Va.	Leaves	2	.52	.97	.74
Silphium sp.	Kans., S.C., U.P.	Leaves	4	0	1.69	1.05
	Nebr., U.P.	Whole	4	0	0	0
	Fla.	?	1	0		
Simaruba (simaruba), SIMARUBACEAE						
S. glauca DC. (paradisetree)	Fla.	Leaves	4	0	0	0
	Fla.	Stems	2	0	0	0
Simaruba sp.	Fla.	Whole	1	Tr		
Siphonychia, CARYOPHYLLACEAE						
S. americana (Nutt.) Torr. & Gray	Fla.	Whole	3	0	.05	.03
S. diffusa Chapm.	Fla.	Whole	1	0		
S. erecta Chapm.	Fla.	Whole	1	0		
Sisymbrium, CRUCIFERAE						
S. altissimum L. (tumblemustard)	N.J.	Leaves	1	0		
	Idaho, U.P.	Whole	2	0	0	0
S. nasturtium-aquaticum, See *Rorippa nasturtium-aquaticum*.						
S. officinalis (L.) Scop.	N.J., N.C.	Whole	2	0	0	0
Sisymbrium sp.	Kans., Idaho, Mont., Nebr., Oreg., U.P., Utah, Wyo.	Whole	21	0	Tr	Tr

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Sisyrinchium (blue-eyedgrass), IRIDACEAE.			Number	Percent	Percent	Percent
S. fuscatum Bickn.------------------------	Fla.	Whole	3	0	.09	.04
Sisyrinchium sp.--------------------------	Fla.	?	1	0		
Sitilias. See *Pyrrhopappus*						
Sium (waterparsnip), UMBELLIFERAE.						
S. suave Walt. (hemlock water-parsnip).	N.J.	Leaves	1	Tr		
Smallanthus. See *Polymnia*.						
Smilacina (Solomonplume), LILIACEAE.						
S. racemosa (L.) Desf. (feather solomonplume).	Ga., N.J., N.C.	Leaves	3	0	0	0
	N.J., W.Va.	Whole	2	0	.05	.02
Smilacina sp.-----------------------------	Mont., Utah	Whole	2	0	0	0
Smilax (greenbrier), LILIACEAE.						
S. auriculata Walt.-----------------------	Fla.	Leaves	5	0	.16	.03
	Fla.	Stems	3	0	.14	.05
	Fla.	Whole	3	0	0	0
S. bona-nox L. (saw greenbrier)----------	Fla., Ga., La.	Leaves	5	0	0	0
	Fla.	Stems	2	0	0	0
S. glauca Walt. (cat greenbrier)---------	Fla., Ga., N.J.	Leaves	3	0	0	0
	Fla.	Whole	1	0		
S. havanensis Jacq.-----------------------	Fla.	Leaves	1	0		
	Fla.	Stems	1	.32		
S. herbacea L. (carrionflower greenbrier).	N.J., N.C.	Leaves	4	0	Tr	Tr
S. hageri (Small) Norton-----------------	Ga.	Leaves	1	0		
S. lancleolata L. (lanceleaf greenbrier).	Ala., Fla., Ga., S.C.	Leaves	5	0	0	0
S. laurifolia L. (laurel greenbrier)-----	Fla.	Leaves	4	0	.08	.02
	Fla.	Stems	4	0	.18	.06
	Fla.	Seeds	1	0		
S. rotundifolia L. (common greenbrier)---	Fla., Ga., N.J., N.C., S.C.	Leaves	8	0	0	0
	Fla.	Stems	1	0		
	N.J., S.C.	Whole	3	0	.10	.06
Smilax sp.--------------------------------	Fla.	Leaves	1	0		
	Fla.	?	3	0	0	0
Soya. See *Glycine*.						
Solanum (nightshade), SOLANACEAE.						
S. aculeatissimum Jacq. (soda-apple nightshade).	Fla.	Leaves	1	0		
	Fla.	?	1	0		
S. bahamense L.---------------------------	Fla.	Leaves	1	.03		
	Fla.	Stems	1	0		

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Solanum (nightshade), SOLANACEAE.--Continued			Number	Percent	Percent	Percent
S. blodgettii Chapm.----------------------------	Fla.	Leaves	6	0	.06	.02
	Fla.	Stems	6	0	0	0
	Fla.	Berries	1	0		
	Fla.	Whole	1	0		
S. carolinense L. (Carolina horsenettle).	N.J.	Leaves	2	0	0	0
	N.C., S.C.	Whole	2	0	0	0
S. dulcamara L. (bitter nightshade)-------	Ga., N.J.	Leaves	2	0	0	0
	N.J., N.C.	Whole	2	0	.07	.04
S. elaeagnifolium Cav. (silverleaf nightshade).	Tex.	Whole	2	0	0	0
S. floridanum Shuttlw. ?-----------------	Fla.	Whole	1	0		
S. gracile Link--------------------------	Fla.	Leaves	4	0	.75	.21
	Fla.	Stems	2	0	.03	.02
	Fla.	Whole	2	0	0	0
S. melongena L. (garden eggplant)---------	N.J.	Whole	1	.73		
S. nigrum L. (black nightshade)-----------	Fla., N.J., N.C.	Leaves	3	0	0	0
	N.J.	Whole	1	0		
	Fla.	?	2	0	0	0
S. pseudo-capsicum L. (Jerusalem-cherry)--	N.J.	Whole	1	.16		
S. rostratum Dunal (buffalobur nightshade).	Colo., Fla., Kans., Nebr., U.P.	Whole	23	0	0	0
S. seaforthianum Andr. (Brazilian nightshade).	Fla.	Leaves	1	0		
S. triflorum Nutt. (cutleaf nightshade)---	U.P.	Whole	1	0		
S. tuberosum L. (potato)-----------------	N.J.	Whole	1	0		
S. verbascifolium L. (mullein nightshade).	Fla.	Leaves	3	0	0	0
	Fla.	Stems	2	0	0	0
Solanum sp.------------------------------	Fla.	Leaves	4	0	0	0
	Fla.	Stems	1	0		
	Fla.	Bark	1	0		
	Fla.	Seeds	1	0		
	Calif., Colo., Idaho, Kans., Nebr., N.Mex., U.P., Utah, Wash.	Whole	19	0	.10	Tr
	Fla.	?	5	0	Tr	Tr
Solidago (goldenrod), COMPOSITAE.						
S. aestivalis, See S. rugosa sphagnophila.						
S. altissima L. (tall goldenrod)----------	Ala., Fla., Ga., La., N.J., N.C., S.C., Va., W.Va.	Leaves	30	.29	5.70	1.80
	Colo., Kans., Mont., Nebr., N.J., U.P., Utah, Va.	Whole	22	0	.80	.20
	Fla., La., N.J., N.C., Pa., Va.	?	27	Tr	5.41	1.75

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Solidago (goldenrod), COMPOSITAE--Continued						
S. amplexicaulis, See *S. auriculata*			Number	Percent	Percent	Percent
S. angustifolia Ell.---------------------	Fla., Ga.	Leaves	4	0	3.13	1.35
	Fla.	Whole	1	.63		
	Fla.	?	1	.99		
S. arguta Ait. (Atlantic goldenrod)------	Ga., N.Y.	Leaves	2	0	2.79	1.40
	W.Va.	Whole	1	0		
	N.J., Pa.	?	7	0	2.35	1.68
S. auriculata Shuttlw.-------------------	Ga.	Leaves	1	.10		
S. bicolor L. (silver goldenrod)---------	N.J., N.Y., N.C., Va.	Leaves	7	0	1.71	.93
	N.J., Va., W.Va.	Whole	4	0	.14	.07
	N.J., Pa.	?	4	1.39	3.42	2.34
S. Boottii Hook.(Boott goldenrod)--------	Ala., Fla., Ga.	Leaves	6	0	2.08	1.09
S. brachyphylla Chapm.-------------------	Ga.	Leaves	3	1.48	1.95	1.79
S. caesia L. (wreath goldenrod)----------	Ala., N.C., Va.	Leaves	5	0	1.83	.97
	N.J.	Whole	2	.14	.27	.20
	N.J., Pa.	?	8	0	3.27	1.32
S. canadensis L. (Canada goldenrod)------	Va., W.Va.	Leaves	2	1.41	1.85	1.63
S. canadensis L. var.--------------------	N.C.	Leaves	1	2.28		
	N.J., Pa.	?	2	1.82	2.48	2.15
S. canadensis hargeri Fern.--------------	N.J.	Leaves	2	2.25	2.65	2.45
	Kans.	Whole	4	.30	.72	.48
	N.J.	?	2	2.05	2.42	2.24
S. celtidifolia, See *S. rugosa celtidifolia*.						
S. chapmanii A. Gray (Chapman goldenrod)-	Fla., S.C.	Leaves	28	Tr	4.13	1.81
	Fla.	Stems	4	0	0	0
	Fla.	Flowers	1	0		
	Fla.	Whole	2	.81	1.19	1.00
	Fla.	?	5	0	4.56	1.38
S. conferta, See *S. speciosa*.						
S. elliottii Torr. & Gray (Elliott goldenrod).	Fla., Ga., N.C., S.C.	Leaves	8	1.85	4.70	3.17
	N.J., Va.	?	4	1.88	3.42	2.70
S. elongata Nutt. (creek goldenrod)------	Idaho, Oreg., Wash.	Whole	6	0	1.25	.57
S. erecta Pursh--------------------------	N.Y.	Leaves	1	1.42		
	Va.	Whole	1	0		
	N.C., Pa.	?	2	2.42	2.85	2.64
S. fistulosa Mill. (pinebarren goldenrod).	Fla., Ga., N.C., S.C., Va.	Leaves	31	0	4.27	1.12
	Fla.	Stems	3	0	Tr	Tr
	Fla.	Whole	2	1.11	1.32	1.22
	Fla., N.J.	?	8	0	4.27	1.67
S. flexicaulis L. (zigzag goldenrod)-----	N.J.	Leaves	1	1.28		
	N.J.	Whole	1	.39		
S. gigantea Ait. (giant goldenrod)-------	Ga.	Leaves	4	.58	1.61	1.16
	N.J., N.C.	?	3	2.71	4.06	3.54

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Solidago (goldenrod), COMPOSITAE--Continued			Number	Percent	Percent	Percent
S. gigantea leiophylla Fern. (November goldenrod).	Mont., Nebr., N.J., N.Y., S.C., Tex.	Leaves	6	1.14	4.59	2.18
	Idaho, Kans., Nebr., N.J., N.Mex., U.P., Utah	Whole	16	0	1.73	.54
	N.J., Pa.	?	16	1.32	4.32	2.70
S. glaberrima, See *S. missouriensis*.						
S. graminifolia (L.) Salisb. (grassleaf goldenrod).	N.J., Va., W.Va.	Leaves	6	0	.53	.13
	N.J.	Whole	4	.11	.19	.15
	N.J., Pa.	?	9	Tr	2.14	1.26
S. grandiflora, See *S. rigida*.						
S. hirsutissima, See *S. altissima*.						
S. juncea Ait. (plume goldenrod)----------	N.J., Va.	Leaves	3	.33	2.20	1.07
	N.J.	Whole	1	.82		
	N.J., N.C., Pa.	?	11	1.23	3.42	2.46
S. leavenworthii Torr. & Gray (Leavenworth goldenrod).	Fla., S.C.	Leaves	13	Tr	3.56	1.87
	Fla.	Stems	5	0	.05	.02
	Fla.	Whole	2	.65	1.55	1.10
	Fla.	?	2	0	1.85	.92
S. lindheimeriana Scheele (Lindheimer goldenrod).	Tex.	Whole	1	.79		
S. mexicana, See *S. sempervirens mexicana*.						
S. minor (Michx.) Fern.	Fla., Ga.	Leaves	2	Tr	1.14	.57
	Va.	Whole	1	0		
S. missouriensis Nutt. (Missouri goldenrod).	Ga.	Leaves	1	1.55		
	Colo., Kans., Nebr., U.P.	Whole	19	0	.84	.30
S. mollis Bartl.--------------------------	Tex., U.P.	Whole	2	.40	2.83	1.62
S. nemoralis Ait. (dyersweed goldenrod)--	Ala., Ga., N.C., Va.	Leaves	9	0	1.89	.86
	Ga., N.J., U.P.	Whole	3	0	.42	.21
	N.J., N.C., Pa.	?	7	1.62	3.90	2.58
S. occidentalis (Nutt.) Torr. & Gray (western goldenrod).	Oreg.	Whole	1	.33		
S. odora Ait. (fragrant goldenrod)--------	Ala., Fla., Ga., N.J., N.C., S.C., Va.	Leaves	18	0	4.13	2.10
	N.J., Pa., Va.	?	9	1.25	5.13	3.16
S. patula Muhl. (roughleaf goldenrod)-----	N.J., S.C.	Leaves	3	2.85	2.99	2.92
	N.J.	?	2	2.00	2.71	2.36
S. paucifloscula, See *Chrysoma pauciflosculosa*.						
S. petiolaris Ait.------------------------	Ga., S.C.	Leaves	3	1.99	3.65	2.56
S. pinetorum Small------------------------	N.C.	Leaves	1	2.07		
S. puberula Nutt. (downy goldenrod)-------	N.J., Pa.	?	5	1.14	3.26	2.13

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Solidago (goldenrod), COMPOSITAE--Continued			Number	Percent	Percent	Percent
S. randii (Porter) Britt. (Rand goldenrod).	N.J.	?	1	1.85		
S. rigida L. (stiff goldenrod)	Ga.	Leaves	1	1.97		
	Kans., Nebr.	Whole	5	.24	1.97	.77
	N.J.	?	4	Tr	1.88	1.38
S. rigida humilis Porter	U.P., ?	Whole	4	0	.50	.24
S. rigidiuscula (Torr. & Gray) Porter (showywand goldenrod).	Kans.	Whole	1	.69		
S. roanensis Porter	W.Va.	Whole	1	0		
S. rugosa Mill. (wrinkled golenrod)	Ala., Ga., N.J., N.Y., N.C., S.C., Va., W.Va.	Leaves	16	.07	4.42	2.46
	N.J., N.C.	Whole	5	.10	.93	.43
	N.J., N.C., Pa., Va.	?	34	.99	6.12	2.68
S. rugosa celtidifolia (Small) Fern.	S.C.	Leaves	1	1.09		
S. rugosa sphagnophila Graves	N.J.	?	3	1.91	4.13	3.20
S. sempervirens L. (seaside goldenrod)	Fla., N.J.	Leaves	4	1.14	2.23	1.79
	Fla.	Stems	1	.23		
	Fla.	Whole	3	0	2.08	.75
	N.J.	?	34	Tr	2.48	.86
S. sempervirens mexicana (L.) Fern. (Mexican goldenrod).	Fla., N.C.	Leaves	4	.25	3.22	1.65
	Fla.	Stems	1	0		
	Fla.	Whole	1	.75		
	N.J.	?	1	1.14		
S. serotina, See *S. gigantea leiophylla*.						
S. serotina gigantea, See *S. gigantea*.						
S. sparsiflora A. Gray	N.Mex.	Whole	1	.40		
S. speciosa Nutt. (noble goldenrod)	N.C., S.C.	Leaves	2	2.85	2.85	2.85
	N.J.	?	4	1.91	2.42	2.21
S. squarrosa Muhl. (rugged goldenrod)	N.J., Pa.	?	4	.86	2.93	2.07
S. stricta Ait. (willowleaf goldenrod)	Fla., Ga., S.C.	Leaves	7	Tr	3.13	1.56
	Fla., N.C.	Whole	3	0	.67	.34
	Fla., N.J.	?	2	0	1.14	.57
S. tenuifolia Pursh	Fla., N.C., S.C.	Leaves	3	1.48	3.62	2.65
	Fla.	Stems	1	.19		
	N.C.	Whole	1	.61		
	N.J.	?	1	1.71		
S. tortifolia Ell. (twistleaf goldenrod).	Ga., Va.	Leaves	2	2.15	2.80	2.48
S. ulmifolia Muhl. (elmleaf goldenrod)	Va.	Leaves	1	.23		
	N.J., N.C.	?	2	Med.ppt.	3.00	3.00
S. uniligulata (DC.) Porter	N.J.	Leaves	1	1.71		

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Solidago (goldenrod), COMPOSITAE--Continued			Number	Percent	Percent	Percent
S. yadkinensis (Porter) Small (Yadkin goldenrod).	N.C.	Leaves	1	2.53		
Solidago sp.	Ala., Fla., Ga., N.C., S.C., U.P.	Leaves	32	0	4.87	1.20
	Fla.	Stems	1	.21		
	Colo., Fla., Ga., Idaho, Kans., Mont., Nebr., N.J., N.Mex., Oreg., Tex., U.P., Utah, Wash., ?	Whole	51	0	2.71	.34
	Fla., N.J., N.C.	?	11	0	2.56	.43
Sonchus (sowthistle), COMPOSITAE						
S. arvensis L. (field sowthistle)	N.J.	Leaves	1	Tr		
	Mass., U.P.	Whole	2	0	.47	.24
S. arvensis L. var.	N.Y.	Leaves	1	.79		
S. asper (L.) Hill (prickly sowthistle)	La.	Leaves	1	0		
	N.J.	Whole	1	.21		
S. oleraceus L. (common sowthistle)	Fla., N.J.	Leaves	3	0	.07	.02
	Fla.	Stems	1	0		
	Fla., N.J.	Whole	7	.08	.29	.16
Sonchus sp.	Fla., N.J., S.C.	Leaves	3	0	.27	.10
	U.P.	Whole	1	0		
	Fla.	?	3	0	Tr	Tr
Sophia, See *Descurainia*.						
Sophora (sophora), LEGUMINOSAE.						
S. tomentosa L.	Fla.	Leaves	7	0	.09	.01
	Fla.	Stems	5	0	Tr	Tr
Sophora sp.	Fla.	Leaves	1	.18		
	Fla.	Stems	1	.05		
	Fla.	?	3	0	0	0
Sophronanthe, SCROPHULARIACEAE						
S. hispida Benth.	Fla.	Whole	2	.15	.30	.22
Sorbaria (falsespirea), ROSACEAE						
S. sorbifolia (L.) A. Br. (Ural falsespirea).	N.J.	Leaves	2	0	Tr	Tr
Sorghastrum (indiangrass), GRAMINEAE.						
S. nutans (L.) Nash (yellow indiangrass)	N.C., U.P., Va.	Whole	3	0	0	0
Sorghum (sorghum), GRAMINEAE						
S. halepense (L.) Pers. (johnsongrass).	U.P.	Whole	1	0		
S. vulgare Pers. (sorghum)	Ga.	Whole	1	0		
Sparganium (burreed), GRAMINEAE						
Sparganium sp. ?	Fla.	Whole	1	0		

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Spartina (cordgrass), GRAMINEAE			Number	Percent	Percent	Percent
Spartina sp.------------------------------	Nebr., U.P.	Whole	3	0	0	0
Spathyema, See Symplocarpus.						
Specularia (venuslookingglass), CAMPANULACEAE.						
S. perfoliata (L.) A. DC. (clasping venuslookingglass).	Fla.	?	1	.71		
Spermacoce (buttonplant), RUBIACEAE.						
S. glabra Michx. (smooth buttonplant)-----	Fla.	Whole	1	.35		
Spermacoce sp.----------------------------	Fla.	?	1	Tr		
Sphaeralcea (globemallow), MALVACEAE.						
Sphaeralcea sp.---------------------------	Nebr., Nev., Tex., U.P., Utah, Wash.	Whole	9	0	0	0
Spigelia (spigelia), LOGANIACEAE						
S. marilandica L. (pinkroot spigelia)-----	S.C.	Leaves	1	0		
Spilanthes (spotflower), COMPOSITAE.						
S. americana repens (Walt.) A. H. Moore.	Fla. Fla.	Whole ?	4 1	0 0	.08	.03
Spiraea (spiraea), ROSACEAE						
S. latifolia (Ait.) Borkh. (broadleaf meadowsweet spiraea).	N.J. N.J.	Leaves Whole	6 2	0 .14	0 .21	0 .18
S. thunbergii Sieb. (Thunberg spireae).	N.J.	Leaves	1	0		
S. tomentosa L. (hardback spireae)--------	N.J. N.J.	Leaves Whole	3 2	0 .01	Tr .05	Tr .03
S. vanhouttei Zabel.----------------------	Fla.	Leaves	1	0		
Spiraea sp.-------------------------------	Ga., N.J. Idaho, Kans., Oreg., U.P.	Leaves Whole	4 5	0 0	0 0	0 0
Spiranthes (ladiestresses), ORCHIDACEAE.						
Spiranthes sp.----------------------------	Ga.	Leaves	1	0		
Sporobolus (dropseed), GRAMINEAE.						
S. virginicus (L.) (seashore dropseed).	Fla.	Whole	2	0	0	0
Stachys (betony; woundwort), LABIATAE.						
S. aspera Michx. (roughnettle betony)-----	N.J.	Leaves	1	Tr		
S. floridana Shuttlw. (Florida betony)----	Fla.	Whole	1	0		
S. hyssopifolia Michx.--------------------	Fla., N.J.	Whole	2	0	Tr	Tr
S. palustris L. (marsh betony)------------	N.J.	Leaves	1	Tr		
S. tenuifolia Willd. (slenderleaf betony)-	N.J.	Leaves	1	0		

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Stachytarpeta (falsevalerian), VERBENACEAE.						
			Number	Percent	Percent	Percent
S. jamaicensis (L.) Vahl (Jamaica falsevalerian).	Fla.	Leaves	3	0	.26	.11
	Fla.	Stems	2	0	0	0
	Fla.	?	1	Tr		
Staphylea (bladdernut), STAPHYLEACEAE.						
S. triloba L. (American bladdernut)	N.J.	Leaves	1	0		
Steironema (steironema), PRIMULACEAE						
S. ciliatum (L.) Raf. (fringed steironema).	N.J.	Leaves	4	0	0	0
S. heterophyllum (Michx.) Ref.	Fla., Ga.	Leaves	2	0	.08	.04
S. lanceolatum (Walt.) A. Gray (lanceleaf steironema).	N.J.	Leaves	1	0		
Steironema sp.	Utah	Whole	1	0		
Stenandrium, ACANTHACEAE						
S. floridanum (A. Gray) Small	Fla.	Whole	1	.40		
Stenolobium (yellowtrumpet), BIGNONIACEAE						
S. stand (L.) Seem. (Florida yellowtrumpet).	Fla.	Leaves	3	.29	2.61	1.43
	Fla.	Stems	2	0	.05	.02
Stenotaphrum, GRAMINEAE						
S. secundatum (Walt.) Kuntze (St. Augustine grass).	Fla.	Whole	1	0		
Stephanomeria (wirelettuce), COMPOSITAE.						
S. pauciflora (Torr.) A. Nels.	Tex.	Whole	1	0		
Stephanomeria sp.	Calif., Colo.	Whole	2	0	.03	.02
Sterculia platanifolia, See Firmiana simplex.						
Stillingia (stillingia), EUPHORBIACEAE.						
S. angustifolia (Torr.) S. Wats.	Fla.	Leaves	1	.05		
	Fla., Ga.	Whole	3	0	Tr	Tr
S. aquatica Chapm. (corkwood stillingia).	Fla.	Leaves	6	0	Tr	Tr
	Fla.	Stems	3	0	0	0
	Fla.	Whole	1	.14		
	Fla.	?	1	0		
S. spathulata (Muell.-Arg.) Small	Fla.	Leaves	4	0	0	0
	Fla.	Stems	1	0		
	Fla.	Whole	2	0	.04	.02
S. sylvatica L.	Fla., S.C.	Leaves	3	0	0	0
S. tenuis Small	Fla.	Leaves	3	0	.03	.02
	Fla.	Stems	2	Tr	.03	.02

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Stillingia (stillingia), EUPHORBIACEAE--Continued			Number	Percent	Percent	Percent
Stillingia sp.	Fla.	Leaves	3	0	0	0
	Fla.	Bark	1	0		
	Fla.	Whole	1	0		
	Fla.	?	2	0	0	0
Stipulicida, CARYOPHYLLACEAE						
S. setacea Michx.	Fla.	Whole	1	0		
Stizolobium, See Mucuna.						
Strophostyles (wildbean), LEGUMINOSAE.						
S. helvola (L.) Britt. (trailing wildbean).	N.J.	Leaves	1	Tr		
S. umbellata (Muhl.) Britt. (pink wildbean).	Ga.	Leaves	1	.22		
Stylosanthes (pencilflower), LEGUMINOSAE.						
S. biflora (L.) BSP	Ga.	Leaves	1	0		
	Fla., N.C.	Whole	2	0	0	0
Styrax (snowbell), STYRACACEAE.						
S. americana Lam. (American snowbell).	Fla., S.C.	Leaves	4	0	0	0
	Fla.	Stems	1	0		
S. grandiflora Ait. (bigleaf snowbell).	Fla., S.C.	Leaves	5	0	.27	.05
S. pulverulenta Michx. (downy snowbell).	Fla.	Leaves	1	0		
Suaeda (seepweed), CHENOPODIACEAE.						
S. linearis (Ell.) Moq.	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
	Fla.	Roots	1	0		
	Fla.	Whole	4	0	.16	.04
Suaeda sp.	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
	Colo., Fla., Nev., U.P.	Whole	9	0	.01	Tr
	Fla.	?	3	0	0	0
Suriana (baycedar), SIMARUBACEAE.						
S. maritima L. (baycedar)	Fla.	Leaves	5	0	0	0
	Fla.	Stems	4	0	0	0
	Fla.	?	4	0	0	0
Svida, See Cornus.						
Swietenia (mahogany), MELIACEAE.						
S. mahagoni Jacq. (westindies mahogany)	Fla.	Leaves	2	0	0	0
	Fla.	Stems	2	0	0	0
	Fla.	?	1	0		
Swietenia sp.	Fla.	?	1	0		

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Stachytarpheta (falsevalerian), VERBENACEAE.						
			Number	Percent	Percent	Percent
S. jamaicensis (L.) Vahl (Jamaica falsevalerian).	Fla.	Leaves	3	0	.26	.11
	Fla.	Stems	2	0	0	0
	Fla.	?	1	Tr		
Staphylea (bladdernut), STAPHYLEACEAE.						
S. triloba L. (American bladdernut)-------	N.J.	Leaves	1	0		
Steironema (steironema), PRIMULACEAE						
S. ciliatum (L.) Raf. (fringed steironema).	N.J.	Leaves	4	0	0	0
S. heterophyllum (Michx.) Ref.------------	Fla., Ga.	Leaves	2	0	.08	.04
S. lanceolatum (Walt.) A. Gray (lanceleaf steironema).	N.J.	Leaves	1	0		
Steironema sp.----------------------------	Utah	Whole	1	0		
Stenandrium, ACANTHACEAE						
S. floridanum (A. Gray) Small-------------	Fla.	Whole	1	.40		
Stenolobium (yellowtrumpet), BIGNONIACEAE						
S. stand (L.) Seem. (Florida yellowtrumpet).	Fla.	Leaves	3	.29	2.61	1.43
	Fla.	Stems	2	0	.05	.02
Stenotaphrum, GRAMINEAE						
S. secundatum (Walt.) Kuntze (St. Augustine grass).	Fla.	Whole	1	0		
Stephanomeria (wirelettuce), COMPOSITAE.						
S. pauciflora (Torr.) A. Nels.------------	Tex.	Whole	1	0		
Stephanomeria sp.-------------------------	Calif., Colo.	Whole	2	0	.03	.02
Sterculia platanifolia, See Firmiana simplex.						
Stillingia (stillingia), EUPHORBIACEAE.						
S. angustifolia (Torr.) S. Wats.----------	Fla.	Leaves	1	.05		
	Fla., Ga.	Whole	3	0	Tr	Tr
S. aquatica Chapm. (corkwood stillingia).	Fla.	Leaves	6	0	Tr	Tr
	Fla.	Stems	3	0	0	0
	Fla.	Whole	1	.14		
	Fla.	?	1	0		
S. spathulata (Muell.-Arg.) Small---------	Fla.	Leaves	4	0	0	0
	Fla.	Stems	1	0		
	Fla.	Whole	2	0	.04	.02
S. sylvatica L.---------------------------	Fla., S.C.	Leaves	3	0	0	0
S. tenuis Small---------------------------	Fla.	Leaves	3	0	.03	.02
	Fla.	Stems	2	Tr	.03	.02

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Stillingia (stillingia), EUPHORBIACEAE--Continued			Number	Percent	Percent	Percent
Stillingia sp.----------------------------	Fla.	Leaves	3	0	0	0
	Fla.	Bark	1	0		
	Fla.	Whole	1	0		
	Fla.	?	2	0	0	0
Stipulicida, CARYOPHYLLACEAE						
S. setacea Michx.------------------------	Fla.	Whole	1	0		
Stizolobium, See Mucuna.						
Strophostyles (wildbean), LEGUMINOSAE.						
S. helvola (L.) Britt. (trailing wildbean).	N.J.	Leaves	1	Tr		
S. umbellata (Muhl.) Britt. (pink wildbean).	Ga.	Leaves	1	.22		
Stylosanthes (pencilflower), LEGUMINOSAE.						
S. biflora (L.) BSP------------------------	Ga.	Leaves	1	0		
	Fla., N.C.	Whole	2	0	0	0
Styrax (snowbell), STYRACACEAE.						
S. americana Lam. (American snowbell).	Fla., S.C.	Leaves	4	0	0	0
	Fla.	Stems	1	0		
S. grandiflora Ait. (bigleaf snowbell).	Fla., S.C.	Leaves	5	0	.27	.05
S. pulverulenta Michx. (downy snowbell).	Fla.	Leaves	1	0		
Suaeda (seepweed), CHENOPODIACEAE.						
S. linearis (Ell.) Moq.-------------------	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
	Fla.	Roots	1	0		
	Fla.	Whole	4	0	.16	.04
Suaeda sp.--------------------------------	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
	Colo., Fla., Nev., U.P.	Whole	9	0	.01	Tr
	Fla.	?	3	0	0	0
Suriana (baycedar), SIMARUBACEAE.						
S. maritima L. (baycedar)-----------------	Fla.	Leaves	5	0	0	0
	Fla.	Stems	4	0	0	0
	Fla.	?	4	0	0	0
Svida, See Cornus.						
Swietenia (mahogany), MELIACEAE.						
S. mahagoni Jacq. (westindies mahogany)	Fla.	Leaves	2	0	0	0
	Fla.	Stems	2	0	0	0
	Fla.	?	1	0		
Swietenia sp.-----------------------------	Fla.	?	1	0		

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Symphoricarpos (snowberry), CAPRIFOLIACEAE.			Number	Percent	Percent	Percent
S. albus (L.) Blake (common snowberry).	Kans.	Whole	1	.50		
S. albus (L.) Blake var.	S.C.	Leaves	1	1.25		
S. albus laevigatus (Fern.) Blake (garden common snowberry).	N.J.	?	3	Tr	2.28	1.51
S. occidentalis Hook. (western snowberry).	Mont., Minn., Nebr., U.P.	Whole	5	.53	1.86	.98
S. orbiculatus Moench (indiancurrant coralberry).	Ga., N.J., Tenn., Va.	Leaves	7	0	1.71	.51
S. racemosus. See S. albus						
Symphoricarpos sp.	Kans., Mont.	Leaves	2	.83	.83	.83
	Idaho, Kans., Nebr., Oreg., U.P.	Whole	13	0	.88	.24
Symplocarpus (skunkcabbage), ARACEAE.						
S. foetidus (L.) Nutt. (skunkcabbage)	N.J.	Leaves	1	0		
	N.J.	Whole	2	0	0	0
Symplocos (sweetleaf), SYMPLOCACEAE.						
S. tinctoria (L.) L'Her. (common sweetleaf).	Ala., Fla., Ga., S.C., Va.	Leaves	10	0	0	0
Syringa (lilac), OLEACEAE.						
S. vulgaris L. (common lilac)	N.J.	Leaves	1	0		
Tabernaemontana (tabernaemontana), APOCYNACEAE.						
T. coronaria Willd. (crapejasmine tabernaemontana).	Fla.	Leaves	2	1.70	2.37	2.04
	Fla.	Stems	1	.12		
Tabernaemontana sp.	Fla.	?	1	1.56		
Tagetes (marigold), COMPOSITAE						
T. patula L. (French marigold)	Fla.	Leaves	1	0		
Talinum (fameflower), PORTULACACEAE.						
T. teretifolium Pursh (quill fameflower).	Ga.	Whole	1	.13		
Tamarix (tamarisk), TAMARICACEAE						
T. gallica L. (French tamarisk)	Fla.	Leaves	1	0		
	Fla.	Whole	1	0		
Tamarix sp.	Colo., Nev., U.P.	Whole	3	0	0	0
Tanacetum (tansy), COMPOSITAE						
T. vulgare L. (common tansy)	Ga., N.J.	Leaves	3	Tr	1.88	1.00
	Idaho, N.J., Wash.	Whole	4	0	.63	.23
T. vulgare crispum (horticultural variety).	N.J.	Whole	1	.12		
Tanacetum sp.	Wash.	Whole	1	0		

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Taraxacum (dandelion), COMPOSITAE.			Number	Percent	Percent	Percent
T. laevigatum (Willd.) DC. (smooth dandelion).	Ga., N.J.	Whole	2	.20	.26	.23
T. officinale Weber (common dandelion).	N.J.	Leaves	3	0	Tr	Tr
	N.J.	Whole	2	.31	.31	.31
Taraxacum sp.----------------------------	U.P.	Whole	1	0		
Taxodium (baldcypress), TAXODIACEAE.						
T. distichum (L.) Rich. (common baldcypress).	Fla.	Whole	2	0	0	0
Tecomaria (tecomaria), BIGNONIACEAE.						
T. capensis (Lindl.) Seam. (Cape-honeysuckle).	Fla.	Leaves	5	.26	.77	.42
	Fla.	Stems	2	.03	.08	.06
Telanthera. See Alternanthera						
Tephrosia (tephrosia), LEGUMINOSAE.						
T. ambigua M. A. Curtis------------------	Fla.	Leaves	1	0		
	Fla.	Whole	1	0		
T. chrysophylla Pursh--------------------	Fla.	Whole	1	0		
T. spicata (Walt.) Torr. & Gray (brownhair tephrosia).	Fla.	Whole	2	0	0	0
T. virginiana (L.) Pers. (Virginia tephrosia).	Ga., N.C., Va.	Leaves	4	0	0	0
	Fla., N.J., N.C.	Whole	6	0	.22	.04
	Fla.	?	1	0		
Tetragonotheca, COMPOSITAE.						
T. helianthoides L.----------------------	Fla., S.C.	Leaves	2	0	.55	.28
T. texana A. Gray & Engelm.--------------	Okla.	Whole	1	0		
Tetrapanax (ricepaperplant), ARALIACEAE.						
T. papyriferus Koch (ricepaperplant)-----	Fla.	Leaves	1	0		
Tetrazygia (tetrazygia), MELASTOMACEAE.						
T. bicolor (Mill.) Cogn. (Florida tetrazygia).	Fla.	Leaves	3	.40	2.42	1.51
	Fla.	Stems	2	0	0	0
Teucrium (germander), LABIATAE.						
T. canadense L. (American germander)-----	Fla., N.J.	Leaves	2	.67	1.71	1.19
T. nashii Kearn. (Nash germander)--------	Fla.	Leaves	12	0	2.63	.92
	Fla.	Stems	5	0	0	0
	Fla.	Seeds	1	0		
	Fla.	Whole	2	.08	.11	.10
	Fla.	?	3	0	.99	.33
Thalia (thalia), MARANTACEAE						
T. geniculata L.-------------------------	Fla.	Leaves	1	0		
	Fla.	Whole	2	0	.03	.02

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Thalictrum (meadowrue), RANUNCULACEAE.			Number	Percent	Percent	Percent
T. polygamum Muhl. (tall meadowrue)------	N.J. N.J.	Leaves Whole	1 1	0 0		
Thalictrum sp.---------------------------	N.J., N.C. N.J., Va.	Leaves Whole	2 2	0 0	0 .13	0 .06
Thaspium (thaspium), UMBELLIFERAE.						
T. barbinode (Michx.) Nutt.--------------	Fla.	Leaves	1	0		
Thea. See Camelia.						
Thelesperma (greenthread), COMPOSITAE.						
T. gracile (Torr.) A. Gray---------------	Tex.	Whole	1	0		
T. trifidum (Poir.) Britt.---------------	U.P.	Whole	1	.07		
Thelesperma sp.--------------------------	U.P.	Whole	1	0		
Thelypodium (thelypody), CRUCIFERAE.						
T. integrifolium (Nutt.) Endl.-----------	Idaho	Whole	1	0		
Thermopsis (thermopsis), LEGUMINOSAE.						
T. fraxinifolia (Nutt.) M. A. Curtis (ashleaf thermopsis).	N.C.	Whole	1	0		
Thermopsis sp.---------------------------	U.P.	Whole	3	0	0	0
Thespesia, MALVACEAE.						
T. populnea (L.) Soland. (portiatree).	Fla.	Leaves	1	1.14		
Thevetia (thevetia), APOCYNACEAE.						
T. nereifolia Juss. (luckynut thevetia; oleander).	Fla. Fla. Fla.	Leaves Stems Whole	2 2 1	.31 .08 .28	.72 .21	.52 .14
Thlaspi (pennycress), CRUCIFERAE						
T. arvense L. (field pennycress)---------	U.P.	Whole	1	0		
T. perfoliatum L. (thorowort pennycress).	Oreg.	Whole	1	0		
Thlaspi sp.------------------------------	U.P.	Whole	1	0		
Thunbergia (clockvine), ACANTHACEAE.						
T. fragrans Roxb. (sweet clockvine)------	Fla.	?	1	Tr		
T. laurifolia Lindl. (laurel clockvine).	Fla.	Leaves	1	.39		
Thyella tamnifolia, See Jacquemontia tamnifolia.						
Thysanella, POLYGONACEAE.						
T. fimbriata (Ell.) A. Gray--------------	Ga.	Whole	1	0		

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Tidestromia (tidestromia), AMARANTHACEAE.			Number	Percent	Percent	Percent
T. lanuginosa (Nutt.) Standl. *woolly tidestromia*).	Nev.	Whole	1	0		
Tidestromia sp.	Calif.	Whole	1	0		
Tilia (linden; basswood), TILIACEAE.						
T. caroliniana Mill. (Carolina linden; Carolina basswood).	Fla.	Leaves	1	0		
T. georgiana Sarg. ?(Georgia linden; Georgia basswood).	Fla.	Leaves	1	0		
Tilia sp.	Fla., N.J.	Leaves	3	0	1.18	.39
	Fla.	Stems	1	0		
Tillandsia (tillandsia), BROMELIACEAE.						
T. fasciculata Sw. (quill-leaf tillandsia).	Fla.	Whole	1	0		
Tithymalopsis. See *Euphorbia*.						
Tithymalus. See *Euphorbia*.						
Tofieldia (tofieldia), LILIACEAE.						
T. racemosa (Walt.) BSP (sticky tofieldia).	Fla.	Whole	1	0		
Torreya (torreya), TAXACEAE.						
T. taxifolia Arn. (Florida torreya).	Fla.	Leaves	1	.04		
	Fla.	Stems	1	0		
Torrubia (blolly), NYCTAGINACEAE.						
T. longifolia (Heimerl.) Britt. (longleaf blolly).	Fla.	Leaves	3	0	.21	.10
	Fla.	Stems	2	0	0	0
Tournefortia (tournefortia), BORAGINACEAE.						
T. gnaphalodes (Jacq.) R.Br.	Fla.	Leaves	3	0	.45	.15
	Fla.	Stems	2	0	0	0
	Fla.	?	1	0		
T. hirsutissima L. (Trinidad tournefortia).	Fla.	Stems	1	0		
	Fla.	Whole	2	0	0	0
T. poliochros Spreng.	Fla.	Leaves	1	0		
T. volubilis L.	Fla.	Leaves	1	.03		
	Fla.	Stems	1	0		
	Fla.	Whole	1	0		
Tovara (tovara), POLYGONACEAE.						
T. virginiana (L.) Raf. (Virginia tovara).	N.J., N.C.	Leaves	5	0	0	0
	Fla.	Whole	1	0		
Townsendia (townsendia), COMPOSITAE.						
T. texensis Larsen.	Tex.	No test				

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Toxicodendron, ANACARDIACEAE.			Number	Percent	Percent	Percent
T. radicans (L.) Kuntze (common poisonivy).	Fla., N.J.	Leaves	6	0	.18	.03
	Fla.	Stems	2	0	0	0
T. vernix (L.) Kuntze (poisonsumac).	Ga., N.J., N.C.	Leaves	3	0	.07	.02
Toxylon. See *Maclura*						
Tracaulon (tearthumb), POLYGONACEAE.						
T. arifolium (L.) Raf. (halbeardleaf tearthumb).	N.J.	Leaves	2	0	0	0
T. sagittatum (L.) Small (arrowleaf tearthumb).	N.J., S.C.	Leaves	2	0	0	0
	N.C., W.Va.	Whole	2	0	.08	.04
Trachelospermum (starjasmine), APOCYNACEAE.						
T. difforme (Walt.) A. Gray	N.C.	Leaves	1	0		
	N.C.	Whole	1	0		
T. jasminoides (Lindl.) Lem. (Chinese starjasmine; confederate-jasmine).	Fla.	Leaves	1	4.82		
	Fla.	Stems	1	.25		
	Fla.	Whole	1	.85		
Tradescantia (spiderwort), COMMELINACEAE.						
T. reflexa Raf.	Ga.	Leaves	1	0		
	Fla., N.C.	Whole	2	0	0	0
Tradescantia sp.	Ind.	Whole	1	0		
	Fla.	?	2	0	0	0
Tragia (noseburn), EUPHORIACEAE.						
T. urens L.	Ala.	No test				
T. urticifolia Michx.	Okla.	Whole	1	.06		
Tragia sp.	Fla.	?	2	0	0	0
Tragopogon (salsify), COMPOSITAE.						
T. porrifolius L. (vegetable-oyster salsify).	N.J., N.Mex.	Whole	2	.12	.32	.22
T. pratensis L. (meadow salsify)	N.J.	Leaves	2	0	Tr	Tr
	N.J.	Whole	1	.15		
Tragopogon sp.	Idaho, Kans., Mass., Nebr., N.J., Oreg., U.P., Utah, Wyo.	Whole	22	0	.49	.03
Trema (trema), ULMACEAE.						
T. floridana. See *T. mollis*.						
T. lamarckiana (R. & S.) Blume (Westindies trema).	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
T. mollis (Hunb. & Bonpl.) Blume (Florida trema).	Fla.	Leaves	3	0	.10	.06
	Fla.	Stems	3	0	Tr	Tr
Trema sp.	Fla.	?	1	0		

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Triantha racemosa, See *Tofieldia racemosa*.						
Tribulus, ZYGOPHYLLACEAE			Number	Percent	Percent	Percent
T. terrestris L. (puncturevine)	Colo., Kans., Nebr., U.P., Utah	Whole	31	0	0	0
Tribulus sp.	Colo.	Whole	1	0		
Trichostema (bluecurls), LABIATAE						
T. dichotomum L. (forked bluecurls)	Fla., Ga., N.J.	Leaves	5	0	.20	.05
	Fla.	Stems	1	0		
	Fla., N.J., N.C., Tenn.	Whole	6	0	0	0
	Fla.	?	1	Tr		
Trichostigma, PHYTOLACCACEAE						
T. octandrum (L.) H. Walt.	Fla.	Whole	1	0		
Trifolium (clover), LEGUMINOSAE						
T. agrarium L. (hop clover)	N.J.	Whole	1	0		
T. arvense L. (rabbitfoot clover)	N.J.	Whole	2	0	.05	.02
T. hybridum L. (alsike clover)	N.J.	Leaves	1	0		
	Oreg.	Whole	1	0		
T. pratense L. (red clover)	Fla., N.J.	Leaves	2	0	0	0
	Colo., Fla., N.C., Va.	Whole	6	0	0	0
T. procumbens L. (low hop clover)	N.J.	Whole	1	.12		
T. repens L. (white clover)	Fla.	Whole	2	0	0	0
Trifolium sp.	U.P.	Whole	1	0		
	Fla.	?	1	0		
Trilisa (trilisa), COMPOSITAE						
T. carnosa (Small) Robinson	Fla.	Whole	1	.56		
T. odoratissima (Walt.) Cass. (vanilla trilisia).	Ala., Fla.	Leaves	6	0	.22	.04
	Fla.	Stems	1	0		
	Fla.	Whole	1	0		
T. paniculata (Walt.) Cass. (hairy trilisia).	Fla., S.C.	Leaves	2	.06	.65	.36
	S.C.	Whole	1	.18		
Trilisa sp.	Fla.	?	1	0		
Trionum, See *Hibiscus*.						
Triosteum (horsegentian), CAPRIFOLIACEAE.						
T. perfoliatum L. (common horsegentian; feverwort).	N.C.	Leaves	1	.31		
Triosteum sp.	W.Va.	Leaves	1	0		
Tubiflora, See *Elytraria*.						
Tumion, See *Torreya*.						

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
			Number	Percent	Percent	Percent
Tunica (tunicflower), CARYOPHYLLACEAE.						
T. prolifera (L.) Scop. (littleleaf tunicflower).	Ga.	Whole	1	0		
Tussilago (coltsfoot), COMPOSITAE.						
T. farfara L. (common coltsfoot)----------	N.J.	Whole	1	.17		
Typha (cattail), TYPHACEAE						
T. latifolia L. (common cattail)----------	Idaho, Nebr., U.P.	Whole	3	0	.02	.01
T. latifolia L. var.----------------------	Fla.	Whole	1	0		
Typha sp.---------------------------------	N.J.	Leaves	1	0		
	Fla., U.P., Utah	Whole	7	0	.06	.01
Ulmus (elm), ULMACEAE						
U. alata Michx. (winged elm)--------------	Fla., Ga., N.C., S.C.	Leaves	9	0	0	0
U. americana L. (American elm)	Fla., Ga., N.C.	Leaves	9	0	0	0
	Fla.	Stems	1	0		
U. floridana, See U. americana						
U. fulva Michx. (slippery elm)------------	Fla., N.C.	Leaves	4	0	0	0
	N.J.	Whole	2	Tr	.05	.02
Ulmus sp.---------------------------------	Ga., Kans., Nebr., S.C.	Leaves	5	0	.20	.04
	Kans.	Whole	1	0		
Unifolium, See Maianthemum.						
Uniola (uniola), GRAMINEAE						
U. latifolia Michx. (broadleaf uniola).	Ga.	Whole	1	0		
U. paniculata L. (seaoats)----------------	Fla.	Whole	1	0		
Urechites (vipertail), APOCYNACEAE						
U. lutea (L.) Britt. (hammock vipertail).	Fla.	Leaves	5	.37	3.64	1.28
	Fla.	Stems	4	.03	.11	.06
	Fla.	Whole	2	.55	1.29	.92
U. pinetorum Small (flatwoods vipertail).	Fla.	No test				
Urechites sp.-----------------------------	Fla.	Stems	1	0		
	Fla.	?	2	1.28	1.42	1.35
Urena, MALVACEAE.						
U. lobata L. (cadillo)--------------------	Fla.	Leaves	4	0	.39	.10
	Fla.	Stems	1	.09		
Urtica (nettle), URTICACEAE						
U. gracilis Ait. (slim nettle)------------	Nebr., U.P.	Whole	2	0	0	0
Urtica sp.--------------------------------	Colo., Idaho, Kans., Oreg., U.P., Utah	Whole	10	0	0	0

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Urticastrum, See Laportea.						
Utricularia (bladderwort), LENTIBULARIACEAE.			Number	Percent	Percent	Percent
U. cornuta Michx. (horned bladderwort)	Fla.	?	1	.05		
Uvularia (merrybells), LILIACEAE						
U. perfoliata L. (wood merrybells)	N.J.	Leaves	1	0		
Vaccinium (blueberry), ERICACEAE						
V. angustifolium Ait. (lowbush blueberry).	N.Y.	Whole	1	0		
V. arboreum Marsh. (farkleberry)	Ala., Fla., Ga., N.C., S.C.	Leaves	17	0	.09	Tr
	Fla.	Stems	1	Tr		
V. atrococcum (A. Gray) Heller (downy blueberry)	N.J.	Leaves	1	0		
V. caesium Greene	Fla.	Leaves	1	0		
V. candicans, See V. melanocarpum candicans.						
V. corymbosum L. (highbush blueberry).	N.J., Va.	Leaves	6	0	Tr	Tr
	N.J.	Whole	2	.09	.15	.12
V. crassifolium Andr. (creeping blueberry).	N.C.	Whole	1	0		
V. elliottii Chapm.	Fla., Ga., N.C., S.C.	Leaves	5	0	0	0
V. floridanum Schwein. ex Nutt.	Fla.	Leaves	6	0	.63	.10
V. macrocarpum Ait. (cranberry)	N.J.	Whole	1	0		
V. melanocarpum candicans C. Mohr	Va.	Leaves	1	0		
	Ga.	Whole	1	0		
V. myrsinites Lam. (ground blueberry)	Ala., Fla.	Leaves	12	0	.07	.01
	Fla.	Stems	3	0	.03	.01
	Fla.	Bark	1	0		
	Fla.	Whole	11	0	.13	.01
	Fla.	?	3	0	0	0
V. neglectum (Small) Fern. (southern deerberry).	Fla.	Leaves	1	0		
V. pallidum Ait. (blueridge blueberry).	N.J., N.C.	Leaves	2	0	0	0
V. stamineum L. (common deerberry)	Fla., N.J., W.Va.	Leaves	4	0	Tr	Tr
V. tenellum Ait.	Ga.	Leaves	1	0		
V. vacillans, See V. pallidum.						
Vaccinium sp.	Fla., Ga., La., N.J., N.C., Va.	Leaves	23	0	.34	.01
	Fla.	Stems	2	0	0	0
	N.J., Wash.	Whole	5	0	.17	.06
	Fla.	?	4	0	0	0
Vachella, See Acacia.						

TABLE 1.--Continued

Plant[1]	Collected in[2, 3]	Laboratory tests for rubber				
		Part tested[4, 5]	Tests	Low	High	Mean
Vagnera, See Smilacina.						
Validallium, See Allium.						
Varronia globosa, See Cordia bullata.						
Veratrum, LILIACEAE			Number	Percent	Percent	Percent
V. parviflorum Michx.--------------------	N.C.	Leaves	1	0		
Veratrum sp.----------------------------	Wash.	Whole	1	0		
Verbascum (mullein), SCROPHULARIACEAE.						
V. blattaria L. (moth mullein)-----------	Fla., Tenn.	Leaves	2	0	2.33	1.16
	Fla.	Seeds	1	0		
	N.C.	Whole	1	0		
	N.J.	?	2	0	0	0
V. thapsus L. (flannel mullein)---------	Kans., N.J., N.C., U.P., Va.	Leaves	6	0	0	0
	Fla., Idaho, N.J., Oreg., S.C., U.P., Utah, Wash.	Whole	13	0	.03	Tr
Verbascum sp.---------------------------	U.P.	Whole	1	0		
Verbena (verbena), VERBENACEAE.						
V. angustifolia Michx. (narrowleaf verbena).	Ga.	Leaves	1	.37		
V. bonariensis L.-----------------------	Fla., Ga.	Leaves	2	.71	.98	.84
V. bracteata Lag. & Rodr. (bigbract verbena).	N.J.	Leaves	1	0		
	Ala., Idaho, Kans., Nebr., U.P., Utah, Wash.	Whole	12	0	.93	.16
V. carnea Medic.------------------------	Fla.	Whole	1	.17		
V. hastata L. (blue verbena)------------	N.J., N.C	Leaves	4	0	Tr	Tr
	N.J.	Whole	1	.04		
V. littoralis HBK-----------------------	La.	Leaves	1	0		
	N.C.	Whole	1	.21		
V. maritima Small-----------------------	Fla.	Leaves	1	.19		
	Fla.	Whole	3	0	.03	.01
V. officinalis L. (European verbena).	Ga., N.C.	Whole	2	0	.37	.18
V. polystachya HBK----------------------	Fla.	Leaves	2	0	.05	.02
	Fla.	Stems	2	0	Tr	Tr
V. rigida (L.) Spreng-------------------	Ga.	Leaves	1	.08		
	La.	Whole	1	0		
V. scabra Vahl--------------------------	Fla.	Leaves	1	.22		
	Fla.	Stems	1	0		
V. stricta Vent. (woolly verbena)--------	Nebr.	Leaves	1	0		
	Colo., Kans., Nebr., U.P.	Whole	12	0	.15	.01
V. tampensis Nash-----------------------	Fla.	Whole	2	.02	.11	.06

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Verbena (verbena), VERBENACEAE--Continued			Number	Percent	Percent	Percent
V. *tenuisecta* Briq.	Fla.	Whole	3	0	.05	.02
V. *urticaefolia* L. (white verbena)	N.J., Va.	Leaves	2	0	0	0
	N.J., S.C.	Whole	3	0	.11	.07
V. *venosa*, See *V*. *rigida*						
Verbena sp.	Fla., N.J., Tex.	Leaves	8	0	.04	Tr
	Fla.	Stems	1	0		
	Colo., Fla., Nebr., N.Mex., Oreg., U.P., Utah	Whole	18	0	.07	.01
	Fla.	?	5	0	0	0
Verbesina (crownbeard), COMPOSITAE						
V. *aristata* (Ell.) Heller	Fla., Ga.	Leaves	2	.55	.73	.64
V. *encelioides* (Cav.) Benth. & Hook. (golden crownbeard).	Tex.	Leaves	1	0		
V. *encelioides* (Cav.) Benth. & Hook. var.	Colo.	Whole	1	0		
V. *laciniata* (Poir.) Nutt.	Fla.	Leaves	11	.19	1.06	.52
	Fla.	Stems	4	0	0	0
	Fla.	Whole	4	0	.45	.14
	Fla.	?	2	Tr	.71	.36
V. *nudicalis*, See *V*. *aristata*						
V. *occidentalis* (L.) Walt. (yellow crownbeard).	Ga., N.C., S.C., Va.	Leaves	8	.29	1.24	.60
V. *virginica* L. (white crownbeard)	Ala., Fla., Ga., S.C.	Leaves	7	0	1.79	.60
	Fla.	Stems	2	0	0	0
	Fla.	Whole	1	0		
	Fla.	?	4	0	.99	.25
Verbesina sp.	Fla.	Leaves	2	Tr	.90	.45
	Kans.	Whole	1	.63		
	Fla.	?	1	Tr		
Vernonia (ironweed), COMPOSITAE						
V. *acaulis* (Walt.) Gleason	N.C.	Leaves	1	.28		
V. *altissima* Nutt. (tall ironweed)	Fla.	Leaves	1	.27		
V. *angustifolia* Michx.	Fla., S.C.	Leaves	4	0	.20	.10
	Fla., S.C.	Whole	3	.10	.27	.18
V. *baldwinii* Torr. ? (Baldwin ironweed).	U.P.	Whole	1	.17		
V. *blodgettii* Small	Fla.	Leaves	1	.36		
	Fla.	Whole	2	.20	.43	.32
V. *fasciculata* Michx. (western ironweed).	Kans., Nebr.	Whole	4	.15	.30	.23
V. *flaccidifolia* Small	Tenn.	Leaves	1	.62		
V. *gigantea* (Walt.) Trel.	Fla., S.C.	Leaves	7	.05	.59	.28
	Fla.	Whole	1	.11		
V. *glauca* (L.) Britt.	Ga.	Leaves	1	.38		
	N.J.	Whole	1	.13		

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Vernonia (ironweed), COMPOSITAE--Continued						
V. maxima, See V. altissima			Number	Percent	Percent	Percent
V. noveboracensis (L.) Willd. (New York ironweed).	N.J., N.C., S.C., Va., W.Va.	Leaves	7	.59	.05	.28
	N.J.	Whole	2	.09	.09	.09
	N.J.	?	1	0		
V. noveboracensis latifolia, See V. glauca						
V. ovalifolia Torr. & Gray	Ga.	Leaves	1	.03		
Vernonia sp.	Fla., Ga., S.C., U.P.	Leaves	10	0	.27	.11
	Kans., Minn., Nebr., U.P.	Whole	13	0	.37	.06
Veronica (speedwell), SCROPHULARIACEAE.						
V. officinalis L. (drug speedwell)	N.J., Tenn.	Leaves	2	0	0	0
	N.J., W.Va.	Whole	3	0	.19	.06
V. scutellata Veronica (speedwell),	N.J.	Leaves	1	0		
V. virginica, See Veronicastrum virginicum.						
Veronica sp.	N.J.	Whole	1	0		
Veronicastrum, SCROPHULARIACEAE						
V. virginicum (L.) Farwell (Culver physic).	N.J.	Leaves	2	0	0	0
Viburnum (viburnum), CAPRIFOLIACEAE						
V. acerifolium L. (mapleleaf viburnum).	N.J., N.C.	Leaves	5	0	Tr	Tr
	N.J.	Whole	1	.08		
V. cassinoides L. (witherod viburnum).	Fla., Ga., N.J.	Leaves	6	Tr	.43	.20
V. corymbosum (Mill.) Rehd. (Walters viburnum).	Fla.	Leaves	15	0	2.99	.43
	Fla.	Stems	10	0	.07	.01
	Fla.	?	1	0		
V. dentatum L. (arrowwood viburnum)	N.J., Va.	Leaves	4	0	.87	.28
	N.J.	Whole	2	.03	.14	.08
V. lentago L.	N.J.	Leaves	2	Tr	Tr	Tr
V. molle Michx. ? (Kentucky viburnum).	Fla.	Leaves	1	1.49		
V. nudum L. (possumhaw viburnum)	Fla., Ga.	Leaves	6	0	.13	.05
V. obovatum, See V. corymbosum						
V. prunifolium L. (blackhaw viburnum).	Fla., Ga., N.J., N.C., S.C., W.Va.	Leaves	7	0	.41	.18
	N.J.	Whole	3	.11	.21	.16
V. pubescens Pursh (downy viburnum)	N.C.	Leaves	1	.45		
V. rhytidophyllum Hemsl. (leatherleaf viburnum).	Ala.	Leaves	1	0		

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Viburnum (viburnum), CAPRIFOLIACEAE--Continued			Number	Percent	Percent	Percent
V. rufidulum Raf. (rusty blackhaw viburnum).	N.C.	Leaves	1	0		
V. scabrellum (Torr. & Gray) Chapm. (Shensi viburnum).	Fla.	Leaves	3	0	.25	.13
	Fla.	Stems	2	0	.10	.05
V. tinus L. (laurelstinus viburnum).	Ga.	Leaves	1	Tr		
Viburnum sp.-------------------------------	Ala., Fla., Ga., N.J., N.C.	Leaves	15	0	.44	.08
	Fla., N.J.	Whole	2	0	.05	.02
	Fla.	?	1	0		
Vicia (vetch), LEGUMINOSAE						
V. acutifolia Reich. (fourleaf vetch).	Fla.	Whole	2	0	0	0
V. cracca L. (bird vetch; cow vetch; crow vetch).	N.J.	Whole	1	0		
V. villosa Roth (hairy vetch; Russian vetch).	N.J.	Leaves	1	0		
	Wash.	Whole	1	0		
Vicia sp.----------------------------------	La.	Leaves	1	0		
	Fla.	?	1	0		
Vigna (cowpea), LEGUMINOSAE						
V. repens (L.) Kuntze---------------------	Fla.	Leaves	1	.13		
	Fla.	Stems	1	0		
	Fla.	Whole	6	0	.43	.07
V. sinensis (L.) Walp.--------------------	Fla.	Whole	1	0		
Vigna sp.----------------------------------	Fla., N.C.	Whole	3	0	.19	.06
	Fla.	?	1	0		
Virguiera (goldeneye), COMPOSITAE						
V. multiflora (Nutt.) Blake (showy goldeneye).	Utah	Whole	1	0		
Vinca (periwinkle), APOCYNACEAE						
V. major L. (bigleaf perwinkle)-----------	Fla.	Whole	1	.03		
V. minor L. (common periwinkle)-----------	N.J.	Whole	2	0	Tr	Tr
Vincetoxicum (milkvine), ASCLEPIADACEAE						
V. suberosum (L.) Britt. (corkpod milkvine).	Fla.	Whole	1	.85		
Vincetoxicum sp.--------------------------	Fla., Ga.	Leaves	4	.03	1.63	.66
	Fla.	Stems	2	0	0	0
	Fla.	Fruit	1	.43		
	Fla., N.C., S.C.	Whole	4	.41	3.55	1.62
Viola (violet), VIOLACEAE						
V. hastata Michx. (halberdleaf yellow violet).	Ala.	Leaves	1	0		
V. lanceolata L. (lanceleaf violet)-------	N.J.	Whole	2	0	0	0

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Viola (violet), VIOLACEAE--Continued			Number	Percent	Percent	Percent
V. palmata L. ? (palmate violet)----------	N.J.	Whole	1	0		
V. primulifolia L. ? (primrose violet).	N.J.	Leaves	1	0		
V. pubescens Ait. ? (downy violet)-------	N.J.	Whole	1	0		
V. vittata Greene (gulf violet)----------	Fla.	Whole	1	0		
Viola sp.--------------------------------	N.J., N.C.	Leaves	3	0	Tr	Tr
	Fla., N.J., Va.	Whole	5	0	.01	Tr
Vitex (chastetree), VERBENACEAE						
V. negundo L. (negundo chastetr -------	Fla.	Leaves	1	0		
Vitis (grape), VITACEAE						
V. aestivalis Michx. (summer grape).	Va.	Leaves	1	0		
V. labrusca L. (fox grape)---------------	N.J., S.C.	Leaves	2	0	0	0
V. munsoniana Simpson (bird grape)-------	Fla., Ga.	Leaves	3	0	.11	.04
	Fla.	Stems	1	Tr		
	Fla.	Whole	1	0		
V. rotundifolia Michx. (muscadine grape).	N.C.	Leaves	2	0	0	0
	Fla., Ga.	Whole	3	0	0	0
V. rufotomentosa Small (redshank grape).	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
	Fla.	Whole	2	0	0	0
V. simpsonii Munson (Simpson grape).	Fla.	Leaves	1	0		
V. vulpina L. ? (frost grape)------------	Kans.	Whole	1	.08		
Vitis sp.--------------------------------	Fla., Kans., Nebr., N.J., N.C., S.C.	Leaves	8	0	Tr	Tr
	Fla.	Bark	1	0		
	U.P.	Whole	1	0		
	Fla.	?	2	0	0	0
Wahlbergella, See Lychnis.						
Waltheria (waltheria), STERCULIACEAE.						
W. americana L. (Florida waltheria)------	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
	Fla.	Whole	1	0		
	Fla.	?	1	0		
Waltheria sp.----------------------------	Fla.	Leaves	1	0		
Warea, CRUCIFERAE						
W. cuneifolia (Muhl.) Nutt.--------------	Ga.	Leaves	1	0		
Wisteria (wisteria), LEGUMINOSAE.						
W. frutescens (L.) Poir. (American wisteria).	Fla., N.C.	Leaves	2	0	0	0
Wisteria sp.-----------------------------	N.J.	Leaves	1	Tr		

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Woodwardia (chainfern), POLYPODIACEAE			Number	Percent	Percent	Percent
W. areolata (L.) Moore (netvein chainfern).	Fla., Ga.	Whole	4	0	.90	.22
W. virginica (L.) J. E. Smith (Virginia chainfern).	Fla.	Whole	1	Tr		
Wyethia (wyethia), COMPOSITAE						
W. deltoides Nutt.	Oreg.	Whole	1	0		
Xanthium (cocklebur), COMPOSITAE						
X. commune Britt.	Fla.	Leaves	1	2.11		
	Colo., Idaho, Kans., Nebr., N.J., U.P., Utah	Whole	11	0	.42	.18
X. pungens Wallr.	Va.	Leaves	2	.46	.78	.62
X. spinosum L. (spring cocklebur)	Va.	Whole	1	0		
Xanthium sp.	Fla., Nebr., N.J., N.C., S.C., Va.	Leaves	10	0	.95	.59
	Colo., Kans., Nebr., U.P., Utah	Whole	25	0	.52	.13
Xanthorhiza (yellowroot), RANUNCULACEAE.						
X. apifolia, See X. simplicissima.						
X. simplicissima Marsh. (yellowroot)	Ga.	Leaves	1	0		
Xanthoxalis, See Oxalis.						
Xanthoxylum (pricklyash), RUTACEAE.						
X. americanum Mill. (common pricklyash).	N.J.	Leaves	1	0		
X. clava-herculis L. (herculese-club pricklyash).	Fla.	Leaves	6	0	2.39	.40
	Fla.	Stems	1	0		
X. coriaceum A. Rich. (Biscayne pricklyash).	Fla.	Leaves	1	0		
	Fla.	Stems	1	0		
X. fagara (L.) Sarg. (lime pricklyash)	Fla.	Leaves	11	0	.11	.01
	Fla.	Stems	9	0	0	0
	Fla.	Fruit	1	.14		
	Fla.	?	3	0	0	0
Ximenia, OLACACEAE						
X. americana L. (tallowwood)	Fla.	Leaves	18	Tr	1.59	.64
	Fla.	Stems	10	0	.11	.04
	Fla.	Bark	1	0		
	Fla.	Root bark	1	0		
	Fla.	?	4	Tr	2.42	1.07
Xolisma, See Lyonia.						
Xylosteon, See Lonicera.						
Xyris (yelloweyegrass), XYRIDACEAE						
X. ambigua Beyr.	Fla., N.C., S.C.	Whole	3	0	0	0
X. arenicola, See X. flexuosa.						

TABLE 1.--Continued

Plant[1]	Collected in[2,3]	Laboratory tests for rubber				
		Part tested[4,5]	Tests	Low	High	Mean
Xyris (yelloweyegrass), XYRIDACEAE--Continued			Number	Percent	Percent	Percent
X. flexuosa Muhl. (twisted yelloweyegrass).	Fla.	Whole	1	0		
Xyris sp.-------------------------------	Fla.	Whole	1	0		
Yucca (yucca), LILIACEAE						
Y. aloifolia L. (aloe yucca; spanishdagger).	Fla.	Leaves	2	0	Tr	Tr
	Fla.	Stems	1	0		
	Fla.	Whole	1	.05		
Y. filamentosa L. (adamsneedle yucca).	Fla., N.J.	Whole	2	0	0	0
Yucca sp.-------------------------------	Fla.	Leaves	1	.11		
	Ala.	Roots	1	.03		
	Ala., Colo., Fla., Kans., U.P.	Whole	7	0	.15	.02
Zamia (zamia), CYCADACEAE						
Z. umbrosa Small (underbrush zamia)------	Fla.	Leaves	1	0		
Zea (maize; indiancorn), GRAMINEAE.						
Z. mays L. (maze; indiancorn)-----------	Fla., U.P., Utah	Whole	3	0	0	0
Zephranthes (zephyrlily), AMARYLLIDACEAE.						
Z. atamasco (L.) Herb. (atamascolily).	Fla.	Whole	1	0		
Z. simpsonii Chapm. (Simpson zepherlily).	Fla.	Whole	1	0		
Zigadenus (also Zygadenus) (deathcamas), LILIACEAE.						
Z. glaberrimus Michx. (Atlantic deathcamas).	N.C.	Leaves	1	0		
Zinnia (zinnia), COMPOSITAE.						
Z. elegans Jacq. (common zinnia)---------	N.J.	Leaves	1	1.03		
Zinnia sp.------------------------------	Fla.	Leaves	1	1.37		
	N.J., S.C.	Whole	2	.15	.37	.26
Zizia (zizia), UMBELLIFERAE						
Z. aptera (A. Gray) Fern. (heartleaf zizia).	N.J., W.Va.	Leaves	3	0	0	0
	N.J.	Whole	1	0		
Z. cordata, See Z. aptera.						
Zornia (zornia), LEGUMINOSAE						
Z. bracteata (L.) Pers. (bracted zornia).	Fla.	Whole	1	0		
Zygophyllidium, See Euphorbia.						

Footnotes for Table 1

[1] Common names, where available, are supplied in parentheses following the Latin generic and specific names. In each case, the name of the natural plant family in which the plant is classified is inserted in capitals after the generic name.

[2] A question mark, "?," indicates that there was at least one specimen for which there is no record of the place of collection. "U.P." in this column indicates that the specimen was submitted by representatives of the Union Pacific Railroad without notation as to the specific State in which it was collected.

[3] Plants collected and tested by Edison but not represented in the Edison herbarium are not included in this tabulation. If a plant is represented in the herbarium but it has not been possible to find a record of where it was collected nor of any laboratory test, the notation, "No information", is made in this column.

[4] The designation "stem" included not only true stems but small branches, twigs, petioles, pedicels, etc. that would be separated from the leaves and roots by a laboratory helper. The designation "Whole" indicates that the entire specimen as received was ground up without separation into plant parts. In such cases, the specimen may be representative of the whole plant or may have been primarily leaves, stems, roots, or unequal portions of any or all such parts. The question mark, "?," indicates that no record was found of the specific plant part tested. In the later stages, after it was found that the richest concentrations of rubber were usually in the leaves, only leaves were collected and tested. There was no precise designation of this change which was followed by dropping further designation of the plant part tested. Such specimens are designated in this column by the question mark, "?".

[5] The notation, "No test," in this column, indicates that the designated plant is represented in the Edison herbarium and that the place of collection was indicated in the previous column but that there is no record of a laboratory test.

In addition to the plants listed in table 1, there were many that lacked sufficient variety of plant parts to make possible a valid taxonomic identification. Many of these plants were tested for rubber and some had significant percentages of rubber. The impossibility of making positive identification of such plants made it necessary to omit them from this tabulation. The total count of plants tested in the Edison surveys would be increased by between a thousand and two thousand if these indeterminates were included.

There were also two series of tests of plants with taxonomic identifications but without botanical specimens in the Edison herbarium. Many of the identifications may have been garbled in some transcription and others are not in accordance with recognized nomenclature. The AA series consists of 331 collections made and tested in November and December 1927. The Edison collection in the Bronx Zoo consists of 306 specimens. Neither of these collections is represented in the Edison herbarium and they are not included in table 1.

There were numerous instances where the specimens retained in the Edison herbarium were not adequate for making precise identifications but sufficiently complete for making tentative identifications. In such cases, the tentative character of the identification has been indicated in the table by the insertion of a question mark, ?, after the taxonomic identification. In counting the genera and species tested, tentative identifications have been treated as presumptive evidence that the genus or species was tested and thus such genera or species were treated in the count as separate genera or species.

In counting the number of genera and species, Abronia sp. is considered both as a genus and as a species. Abies sp. ? is also treated as genus and species on the assumption that the taxonomic evidence is positive in character even though not complete. Abutilon sp., however, is not considered as an additional species since there is a named species, A. theophrasti Medic., representing the genus.

In table 1, the taxonomic identifications have been checked carefully to conform with approved usage. Synonyms have not been included with the taxonomic identification; but in many cases synonyms have been inserted as cross-reference in their alphabetical order in the table.

Collections were made and botanical specimens retained of a goodly number of plants that were either not tested for rubber or for which no test results were found. If a specimen is included in the herbarium but there is no record of where or when it was collected and no laboratory record of an analysis, the plant is included in the table as a record of collection but the notation "No information" indicates that further data are lacking. For a sample of known origin but lacking test data, the notation "No test" is made. Plants marked "No information" and "No test" were not counted in the summation of genera and species, which thus represents material actually tested and not the total number of plants collected.

Natural Plant Families Represented in the Edison Tests

The tabular data in table 1 have been summarized by natural plant family to show the botanical relationship of species and genera in which rubber was found in the Edison surveys. In table 2 there is shown for each natural plant family the number each of genera and species collected, the number collected but not tested for rubber is inserted in parentheses after each category. The data for each family are summarized by the part of the plant tested and includes under each of the categories the number of tests, the lowest rubber content found, the highest rubber content found, and the mean rubber content.

A total of 47 families (25.3 percent of the 186 families included in the tests) had no rubber in any test. An additional 25 families (13.4 percent) had such small percentages of rubber (no sample as high as 0.1 percent rubber) that its presence in the family might be open to question. A total of 114 families (61.3 percent of the total) had a significant quantity of rubber (0.1 percent or higher) in at least one sample and 44 families (23.7 percent of the total) had 1 percent or more rubber in at least one specimen. A total of 30 families had 2 percent rubber or more in at least one specimen each. This represented 16 percent of all the natural plant families included in the tests.

TABLE 2.--List by natural plant family of plants included in table 1, showing for each family the number of genera and species, the plant parts tested, and the low, high, and mean percentage of rubber found for each plant part and for the family

Family	Genera		Species		Plant part[1]	Tests for rubber content			
	Tested	Not tested	Tested	Not tested		No.	Low	High	Mean
	No.	No.	No.	No.			Pct.	Pct.	Pct.
Acanthaceae-------------------	8		15		Leaves	18	0.0	2.64	0.84
					Stems	3	0	0	0
					Whole	24	0.61	2.55	.64
					?	6	0	1.71	.59
					Totals	51	0	2.64	.66
Aceraceae--------------------	1		3		Leaves	22	0.0	1.30	0.12
					Stems	6	0	.17	.06
					Whole	2	0	.0	.0
					Totals	30	0	1.30	.10
Aizoaceae--------------------	2		2		Leaves	2	0.0	0.0	0.0
					Stems	1	0	0	0
					Whole	7	0	.05	.01
					Totals	10	0	.05	Tr
Alismaceae-------------------	2		6		Leaves	6	0.0	0.0	0.0
					Whole	13	0	.03	Tr
					?	1	0	0	0
					Totals	20	0	.03	Tr
Amaranthaceae----------------	11		21		Leaves	37	0.0	0.37	Tr
					Stems	6	0	.06	0.01
					Whole	164	0	.32	Tr
					?	10	0	Tr	Tr
					Totals	217	0	0.37	Tr
Amaryllidaceae---------------	5		7		Leaves	3	0.0	0.12	0.04
					Stems	1	.28	.28	.28
					Whole	16	0	.22	.01
					Totals	20	0	.28	.03
Anacardiaceae----------------	6		10		Leaves	52	0.0	1.85	0.06
					Stems	12	0	.12	.02
					Whole	18	0	.03	Tr
					Totals	82	0	1.85	.04
Annonaceae-------------------	3		10		Leaves	44	0.0	2.10	0.18
					Stems	19	0	.54	.04
					Whole	2	0	.31	.15
					?	1	0	0	0
					Fruit	1	0	0	0
					Totals	67	0	2.10	.14
Apocynaceae------------------	14		21		Leaves	85	0.0	4.82	1.12
					Stems	29	0	.43	.07
					Whole	47	0	4.04	.69
					?	21	0	2.19	1.04
					Totals	182	0	4.82	.81
Aquifoliaceae----------------	2		12		Leaves	97	0.0	2.80	0.19
					Stems	16	0	.07	Tr
					Whole	4	0	.3	.01
					?	5	0	Tr	Tr
					Root bark	1	0	0	0
					Totals	123	0	2.80	.14

TABLE 2.--Continued

Family	Genera		Species		Plant part[1]	Tests for rubber content			
	Tested	Not tested	Tested	Not tested		No.	Low	High	Mean
	No.	No.	No.	No.			Pct.	Pct.	Pct.
Araceae----------------------	6		9		Leaves	11	0.0	Tr	Tr
					Stems	1	0	0	0
					Whole	11	0	.05	Tr
					?	3	0	0	0
					Totals	26	0	.05	Tr
Araliaceae-------------------	4		5		Leaves	21	0.0	0.30	0.02
					Stems	3	0	.12	.04
					Whole	1	.42	.42	.42
					?	1	0	0	0
					Totals	26	0	.42	.03
Aristolochiaceae-------------	2		4		Leaves	5	0.0	0.0	0.0
					Totals	5	0	0	0
Asclepiadaceae---------------	11		33		Leaves	64	0.0	4.93	1.63
					Stems	9	0	.76	.26
					Whole	95	0	4.40	.68
					?	25	0	3.74	1.54
					Flowers	1	0	0	0
					Bark	1	0	0	0
					Leaves and fruit	1	1.21	1.21	1.21
					Fruit	1	.43	.43	.43
					Seeds	1	0	0	0
					Roots	1	0	0	0
					Totals	207	0	4.93	1.04
Avicenniaceae----------------	1		1		Leaves	7	0.52	3.49	2.07
					Stems	5	.25	1.09	.66
					Totals	12	.25	3.49	1.48
Balsaminaceae----------------	1		3		Leaves	6	0.28	1.56	0.93
					Whole	6	0	.68	.26
					Totals	12	0	1.56	.59
Basselaceae------------------	1		1		Leaves	1	0.0	0.0	0.0
					Totals	1	0	0	0
Batidaceae-------------------	1		1		Leaves	1	0.16	0.16	0.16
					Stems	1	.15	.15	.15
					Whole	3	0	.19	.06
					Totals	5	0	.19	.10
Begoniaceae------------------	1		1		Whole	1	0.0	0.0	0.0
					Totals	1	0	0	0
Berberidaceae----------------	5		6		Leaves	8	0.0	0.0	0.0
					Whole	6	0	0	0
					Totals	14	0	0	0
Betulaceae-------------------	5		6		Leaves	28	0.0	0.0	0.0
					Stems	1	0	0	0
					Whole	3	0	.04	.02
					Totals	32	0	.04	Tr

TABLE 2.--Continued

Family	Genera		Species		Plant part[1]	Tests for rubber content			
	Tested	Not tested	Tested	Not tested		No.	Low	High	Mean
	No.	No.	No.	No.			Pct.	Pct.	Pct.
Bignoniaceae------------------	10		11		Leaves	35	0.0	5.93	0.56
					Stems	7	0	.09	.04
					Whole	8	0	.69	.15
					?	2	0	1.85	.92
					Young leaves and flowers	1	.36	.36	.36
					Totals	53	0	5.93	.43
Bixaceae----------------------		1		1	Leaves	27	0.0	3.70	0.23
					Stems	11	0	.97	.09
					Whole	21	0	.02	Tr
Boraginaceae------------------	12		22	1	?	4	0	0	0
					Stem bark	1	0	0	0
					Root bark	1	0	0	0
					Totals	73	0	3.70	.01
Bromeliaceae------------------	1		1		Whole	1	0.0	0.0	0.0
					Totals	1	0	0	0
Burseraceae-------------------	1		1		Leaves	8	0.0	0.0	0.0
					Stems	8	0	0	0
					Whole	2	0	0	0
					Totals	18	0	0	0
Buxaceae----------------------	2		2		Leaves	1	0.0	0.0	0.0
					Whole	1	.41	.41	.41
					Totals	2	0	.41	.20
Cactaceae---------------------	4	1	4	1	Leaves	1	0.0	0.0	0.0
					Whole	2	0	0	0
					?	3	0	0	0
					Totals	6	0	0	0
Callitrichaceae---------------	1		1		Whole	1	0.0	0.0	0.0
					Totals	1	0	0	0
Calycanthaceae----------------	1		1		Leaves	1	0.0	0.0	0.0
					Totals	1	0	0	0
Campanulaceae-----------------	2		6		Leaves	5	0.72	1.14	0.68
					Whole	5	0	.37	.12
					?	4	.71	2.45	1.52
					Totals	14	0	2.45	.72
Canelaceae--------------------	1		1		Leaves	2	0.0	0.03	0.02
					Stems	2	0	0	0
					Totals	4	0	.03	.01

TABLE 2.--Continued

Family	Genera		Species		Plant part[1]	Tests for rubber content			
	Tested	Not tested	Tested	Not tested		No.	Low	High	Mean
	No.	No.	No.	No.			Pct.	Pct.	Pct.
Cannaceae	1		1		Leaves	4	0.0	0.0	0.0
					Stems	1	0	0	0
					Whole	4	0	.21	.05
					Flowers	1	0	0	0
					Totals	10	0	.21	.02
Capparidaceae	3		8	1	Leaves	15	0.0	Tr	Tr
					Stems	7	0	.02	Tr
					Whole	50	0	.24	.01
					?	4	0	0	0
					Totals	76	0	.24	Tr
Caprifoliaceae	7		28		Leaves	161	0.0	3.47	0.60
					Stems	21	0	.15	.02
					Whole	44	0	1.86	.27
					?	13	0	3.28	.76
					Flowers	1	.18	.18	.18
					Old branches	1	.05	.05	.05
					Young branches and leaves	1	.60	.60	.60
					Totals	242	0	3.47	.49
Caricaceae	1		1		Leaves	6	0.05	0.81	0.21
					Stems	5	0	0	0
					Whole	1	.20	.20	.20
					Fruit	3	0	.07	.05
					Totals	15	0	.81	.11
Caryophyllaceae	10		22	1	Leaves	21	0.0	0.0	0.0
					Whole	24	0	4.09	.20
					?	3	0	0	0
					Totals	48	0	4.09	.10
Celastraceae	5		10		Leaves	26	0.0	2.37	0.53
					Stems	4	0	.70	.44
					Whole	10	.02	.76	.39
					?	5	0	2.27	1.02
					Flowers	1	.43	.43	.43
					Roots	1	.27	.27	.27
					Totals	47	0	2.37	.54
Cephalotaxaceae	1		1		Leaves	1	0.0	0.0	0.0
					Totals	1	0	0	0
Chenopodiaceae	11		20		Leaves	31	0.0	2.30	0.08
					Stems	8	0	.45	.06
					Whole	345	0	.21	Tr
					?	12	0	.14	.01
					Roots	2	0	0	0
					Totals	398	0	2.30	.01

TABLE 2.--Continued

Family	Genera		Species		Plant part[1]	Tests for rubber content			
	Tested	Not tested	Tested	Not tested		No.	Low	High	Mean
	No.	No.	No.	No.			Pct.	Pct.	Pct.
Cistaceae----------------------	4		11		Leaves	14	0.0	0.29	0.02
					Stems	4	0	.02	Tr
					Whole	21	0	.09	.01
					?	6	0	0	0
					Totals	45	0	.29	.01
Cladoniaceae------------------	1		1		Whole	1	0.0	0.0	0.0
					Totals	1	0	0	0
Clethraceae-------------------	1		2		Leaves	12	0.0	0.0	0.0
					Stems	1	0	0	0
					Whole	2	.05	.11	.08
					Totals	15	0	.11	.01
Combretaceae------------------	2		2		Leaves	8	0.21	2.17	1.41
					Stems	4	0	.20	.07
					Totals	13	0	2.17	1.02
Commelinaceae-----------------	3		6		Leaves	4	0.0	0.18	0.04
					Stems	1	0	0	0
					Whole	19	0	.51	.05
					?	4	0	0	0
					Totals	28	0	.51	.04
Compositae--------------------	112	3	493	15	Leaves	1288	0.0	5.70	0.92
					Stems	136	0	.75	.04
					Whole	1702	0	6.91	.24
					?	499	0	6.12	1.43
					Bark	2	Tr	11.26	5.63
					Root bark	2	0	0	0
					Flowers	12	0	1.28	.21
					Fruit	7	0	.23	.07
					New stems	1	1.82	1.82	1.82
					Old stems	1	3.27	3.27	3.27
					Roots	3	0	9.17	4.43
					Seeds	1	.04	.04	.04
					Tops	1	4.27	4.27	4.27
					Totals	3655	0	11.26	.64
Convolvulaceae----------------	8		25	2	Leaves	29	0.0	1.38	0.09
					Stems	7	0	.18	.04
					Whole	70	0	1.21	.03
					?	8	0	Tr	Tr
					Totals	114	0	1.38	.04
Cornaceae---------------------	1		7		Leaves	64	0.0	0.17	Tr
					Stems	4	0	.07	.02
					Whole	13	0	.09	.01
					?	2	0	0	0
					Totals	83	0	.17	Tr

TABLE 2.--Continued

Family	Genera		Species		Plant part[1]	Tests for rubber content			
	Tested	Not tested	Tested	Not tested		No.	Low	High	Mean
	No.	No.	No.	No.			Pct.	Pct.	Pct.
Crassulaceae------------------	3		4		Leaves	11	0.0	0.13	0.01
					Stems	1	.11	.11	.11
					Whole	1	0	0	0
					?	2	0	0	0
					Bark	1	0	0	0
					Totals	16	0	.13	.02
Cruciferae--------------------	21		28		Leaves	17	0.0	0.93	0.07
					Stems	2	0	.03	.01
					Whole	97	0	.23	.01
					?	4	0	0	0
					Totals	120	0	.93	.02
Cucurbitaceae-----------------	6		8		Leaves	6	0.0	Tr	Tr
					Whole	12	0	.23	.02
					?	1	0	0	0
					Totals	19	0	.23	.01
Cupressaceae------------------	2		4		Leaves	3	0.0	0.0	0.0
					Stems	1	0	0	0
					Whole	8	0	.30	.05
					Totals	12	0	.30	.03
Cuscutaceae-------------------	1		1		Leaves	1	0.0	0.0	0.0
					Totals	1	0	0	0
Cycadaceae--------------------	1		1		Leaves	1	0.0	0.0	0.0
					Totals	1	0	0	0
Cyperaceae--------------------	9		19		Leaves	3	0.0	0.0	0.0
					Whole	39	0	.50	.01
					?	2	0	Tr	Tr
					Seeds	1	0	0	0
					Totals	45	0	.50	.01
Cyrillaceae-------------------	2		3		Leaves	8	0.0	0.14	0.02
					Stems	3	0	.11	.04
					Totals	11	0	.14	.02
Diapensiaceae-----------------	2		3		Whole	1	0.0	0.0	0.0
					Totals	1	0	0	0
Dioscoreaceae-----------------	1		1		Leaves	7	0.0	0.0	0.0
					Whole	2	0	0	0
					Totals	9	0	0	0
Dipsacaceae-------------------	2		2		Leaves	4	0.0	0.03	0.01
					Stems	1	.05	.05	.05
					Whole	2	0	Tr	Tr
					Totals	7	0	.05	.01
Droseraceae-------------------	1		1		Whole	1	0.0	0.0	0.0
					?	1	0	0	0
					Totals	2	0	0	0

TABLE 2.--Continued

Family	Genera		Species		Plant part[1]	Tests for rubber content			
	Tested	Not tested	Tested	Not tested		No.	Low	High	Mean
	No.	No.	No.	No.			Pct.	Pct.	Pct.
Ebenaceae	1		2		Leaves	30	0.0	0.33	0.01
					Stems	8	0	.06	.01
					Totals	38	0	.33	.01
Elaeagnaceae	2		2		Leaves	1	0.0	0.0	0.0
					Whole	2	0	0	0
					Totals	3	0	0	0
Empetraceae	1		1		Leaves	1	0.0	0.0	0.0
					Stems	1	.67	.67	.67
					Whole	2	.10	.19	.14
					?	1	0	0	0
					Totals	5	0	.67	.19
Equisetaceae	1		2		Whole	5	0.0	0.27	0.05
					?	1	0	0	0
					Totals	6	0	.27	.04
Ericaceae	13		45		Leaves	223	0.0	0.71	Tr
					Stems	19	0	.29	.02
					Whole	33	0	.47	.05
					?	17	0	Tr	Tr
					Bark	1	0	0	0
					Fruit	1	0	0	0
					Totals	294	0	.71	.01
Eriocaulaceae	1		2		Whole	3	0.0	0.0	0.0
					Totals	3	0	0	0
Euphorbiaceae	22		73	7	Leaves	124	0.0	2.61	0.09
					Stems	41	0	.25	.04
					Whole	214	0	2.02	.07
					?	26	0	Tr	Tr
					Bark	6	0	.43	.11
					Flowers	1	0	0	0
					Fruit	1	0	0	0
					Roots	2	0	.43	.22
					Totals	415	0	2.61	.07
Fagaceae	3		28		Leaves	152	0.0	1.79	Tr
					Stems	21	0	.05	Tr
					Whole	2	0	0	0
					Bark	2	0	0	0
					Totals	177	0	1.79	Tr
Fumariaceae	1		1		Whole	1	0.0	0.0	0.0
					Totals	1	0	0	0
Gentianaceae	4		11		Leaves	8	0.0	Tr	Tr
					Whole	20	0	.93	.07
					?	5	0	Tr	Tr
					Totals	33	0	.93	.04

TABLE 2.--Continued

Family	Genera		Species		Plant part[1]	Tests for rubber content			
	Tested	Not tested	Tested	Not tested		No.	Low	High	Mean
	No.	No.	No.	No.			Pct.	Pct.	Pct.
Geraniaceae-------------------	2		3		Leaves	1	0.0	0.0	0.0
					Whole	5	0	0	0
					?	1	0	0	0
					Totals	7	0	0	0
Gnetaceae--------------------	1		1		Whole	6	0.0	0.0	0.0
					Totals	6	0	0	0
Goodeniaceae-----------------	1		1		Leaves	7	0.0	0.03	Tr
					Stems	4	0	0	0
					?	2	0	0	0
					Totals	13	0	.03	Tr
Gramineae--------------------	40		55		Leaves	4	0.0	0.70	0.46
					Stems	2	.04	.08	.06
					Whole	149	0	2.50	.05
					?	1	0	0	0
					Totals	156	0	2.50	.06
Guttiferae-------------------	1		1		Leaves	1	0.08	0.08	0.08
					Stems	1	.02	.02	.02
					Totals	2	.02	.08	.05
Haemodoraceae----------------	2		2		Leaves	1	0.0	0.0	0.0
					Whole	6	0	0	0
					Totals	7	0	0	0
Haloragidaceae---------------	2		3		Leaves	1	0.0	0.0	0.0
					Whole	10	0	.05	Tr
					?	3	0	0	0
					Totals	14	0	.05	Tr
Hammamelidaceae--------------	2		2		Leaves	25	0.0	0.02	Tr
					Stems	2	0	.17	.08
					Whole	2	.02	.02	.02
					Totals	29	0	.17	.01
Hippocastanaceae-------------	1		2		Leaves	3	0.0	0.0	0.0
					Totals	3	0	0	0
Hippocrataceae---------------	1		1		Leaves	4	1.10	3.55	2.31
					Stems	4	.28	.57	.42
					?	1	2.42	2.42	2.42
					Totals	9	.28	3.55	1.48
Hydrophyllaceae--------------	4		6		Leaves	4	0.0	0.43	0.11
					Whole	5	0	.85	.28
					Totals	9	0	.85	.20
Hypericaceae-----------------	2		25		Leaves	63	0.0	0.29	0.01
					Stems	6	0	.06	.02
					Whole	55	0	.21	.01
					?	5	0	0	0
					Totals	129	0	.29	.01

TABLE 2.--Continued

Family	Genera		Species		Plant part[1]	Tests for rubber content			
	Tested	Not tested	Tested	Not tested		No.	Low	High	Mean
	No.	No.	No.	No.			Pct.	Pct.	Pct.
Iridaceae	4		8		Leaves	4	0.0	0.0	0.0
					Whole	10	0	.15	.03
					?	2	0	0	0
					Totals	16	0	.15	.02
Juglandaceae	2		4		Leaves	30	0.0	0.03	0.02
					Stems	4	0	0	0
					Whole	4	0	.01	Tr
					Totals	38	0	.03	.01
Juncaceae	1		3		Leaves	1	0.0	0.0	0.0
					Whole	8	0	.07	.01
					?	2	0	0	0
					Totals	11	0	.07	.01
Labiatae	36		77		Leaves	194	0.0	3.43	0.65
					Stems	15	0	0.15	.01
					Whole	150	0	1.68	.22
					?	33	0	2.45	.91
					Bark	2	0	0	0
					Flowers	2	0	.04	.02
					Totals	396	0	3.43	.48
Lardizabalaceae	1		1		Leaves	1	0.21	0.21	0.21
					Totals	1	.21	.21	.21
Lauraceae	6		9		Leaves	47	0.0	0.31	0.01
					Stems	10	0	.63	.07
					Whole	4	.02	.05	.02
					?	1	0	0	0
					Totals	62	0	.63	.02
Leguminosae	67		156	1	Leaves	343	0.0	0.85	0.03
					Stems	57	0	.18	.01
					Whole	385	0	.69	.02
					?	41	0	.49	.01
					Bark	1	Tr	Tr	Tr
					Seeds	3	0	0	0
					Totals	830	0	.85	.02
Lentibulariaceae	2		2		Whole	1	0.0	0.0	0.0
					?	1	.05	.05	.05
					Totals	2	0	.05	.02
Liliaceae	24		42		Leaves	64	0.0	0.43	0.01
					Stems	14	0	.41	.08
					Whole	42	0	.15	.01
					?	4	0	0	0
					Flowers	1	0	0	0
					Roots	1	.03	.03	.03
					Seeds	1	0	0	0
					Totals	127	0	.43	.02
Linaceae	1		2		Leaves	1	0.0	0.0	0.0
					Whole	7	0	.23	.03
					Totals	8	0	.23	.03

TABLE 2.--Continued

Family	Genera		Species		Plant part[1]	Tests for rubber content			
	Tested	Not tested	Tested	Not tested		No.	Low	High	Mean
	No.	No.	No.	No.			Pct.	Pct.	Pct.
Loasaceae	1		2		Leaves	1	0.03	0.03	0.03
					Stems	2	0	0	0
					Whole	17	0	0	0
					?	1	0	0	0
					Totals	21	0	.03	Tr
Lobeliaceae	1		11	2	Leaves	31	0.0	1.20	0.18
					Whole	14	0	.71	.11
					?	2	0	Tr	Tr
					Totals	47	0	1.20	.15
Loganiaceae	5		6		Leaves	22	0.0	0.54	0.17
					Stems	1	.04	.04	.04
					Whole	14	0	.95	.22
					?	3	0	0	0
					Totals	40	0	.95	.17
Loranthaceae	1		2		Leaves	3	0.35	2.81	1.38
					Stems	2	.70	.92	.81
					Whole	1	.22	.22	.22
					Totals	6	.22	2.81	1.00
Lycopodiaceae	1		3		Whole	4	0.0	0.31	0.25
					Totals	4	0	.31	.25
Lythraceae	6		8		Leaves	19	0.0	0.26	0.03
					Whole	13	0	.57	.12
					?	3	0	0	0
					Seeds	1	0	0	0
					Totals	36	0	.57	.06
Magnoliaceae	3		4		Leaves	29	0.0	0.03	Tr
					Stems	3	0	.36	.12
					Totals	32	0	.36	.01
Malpighiaceae	1		1		Leaves	2	0.0	0.0	0.0
					Stems	2	0	0	0
					Totals	4	0	0	0
Malvaceae	16	1	34	1	Leaves	84	0.0	1.14	0.08
					Stems	22	0	.18	.04
					Whole	63	0	.89	.04
					?	5	0	0	0
					Bark	1	0	0	0
					Root bark	1	0	0	0
					Flowers	1	0	0	0
					Totals	177	0	1.14	.06
Marantaceae	2		2		Leaves	1	0.0	0.0	0.0
					Whole	3	0	.03	.01
					Totals	4	0	.03	.01
Mayacaceae	1		1		Whole	1	0.0	0.0	0.0
					Totals	1	0	0	0

TABLE 2.--Continued

Family	Genera		Species		Plant part[1]	Tests for rubber content			
	Tested	Not tested	Tested	Not Tested		No.	Low	High	Mean
	No.	No.	No.	No.			Pct.	Pct.	Pct.
Melastomaceae	2		9		Leaves	18	0.0	3.30	0.88
					Stems	2	0	0	0
					Whole	15	Tr	.95	.61
					Totals	35	0	3.30	.71
Meliaceae	2		2		Leaves	13	0.0	0.03	Tr
					Stems	3	0	0	0
					?	2	0	0	0
					Totals	18	0	.03	Tr
Menispermaceae	2		2		Leaves	1	0.0	0.0	0.0
					Whole	1	0	0	0
					Totals	2	0	0	0
Monotropaceae	1		1		Leaves	2	0.0	Tr	Tr
					Totals	2	0	Tr	Tr
Moraceae	6		14		Leaves	49	0.0	0.80	0.08
					Stems	27	0	.37	.07
					Whole	12	0	.13	.02
					?	3	0	0	0
					Totals	91	0	.80	.07
Musaceae	1		1		Leaves	1	0.34	0.34	0.34
					Stems	1	.57	.57	.57
					Whole	1	.15	.15	.15
					Totals	3	.15	.57	.35
Myricaceae	2		5		Leaves	50	0.0	0.10	Tr
					Stems	17	0	.13	.01
					Whole	4	0	.11	.04
					?	2	0	0	0
					Bark	1	0	0	0
					Totals	74	0	.13	.01
Myrsinaceae	2		2		Leaves	23	0.0	1.81	0.16
					Stems	13	0	.60	.05
					?	3	0	0	0
					Bark	1	0	0	0
					Root bark	1	0	0	0
					Totals	41	0	1.81	.10
Myrtaceae	8		12		Leaves	59	0.0	1.27	0.06
					Stems	40	0	.05	.01
					?	8	0	2.14	.27
					Totals	107	0	2.14	.08
Nyctaginaceae	7		8		Leaves	13	0.0	0.45	0.10
					Stems	6	0	.07	.02
					Whole	16	0	Tr	Tr
					?	2	0	0	0
					Totals	35	0	.45	.04

TABLE 2.--Continued

Family	Genera		Species		Plant part[1]	Tests for rubber content			
	Tested	Not tested	Tested	Not tested		No.	Low	High	Mean
	No.	No.	No.	No.			Pct.	Pct.	Pct.
Nymphaeceae-------------------	4		4		Leaves	4	0.0	0.03	0.01
					Whole	3	0	1.80	.88
					Flowers	1	0	0	0
					Totals	8	0	1.80	.34
Nyssaceae--------------------	1		5		Leaves	31	0.0	0.0	0.0
					Stems	4	0	0	0
					Totals	35	0	0	0
Olacaceae--------------------	2		2		Leaves	22	0.0	1.59	0.52
					Stems	11	0	.11	.04
					?	6	0	2.42	.86
					Bark	1	0	0	0
					Root bark	1	0	0	0
					Totals	41	0	2.42	.43
Oleaceae---------------------	8		15		Leaves	72	0.0	0.30	0.02
					Stems	23	0	.14	.01
					Whole	3	0	.05	.03
					?	1	0	0	0
					Totals	99	0	.30	.02
Onagraceae-------------------	7		34		Leaves	83	0.0	3.42	0.71
					Stems	6	0	0	0
					Whole	107	0	.95	.16
					?	33	0	3.27	.81
					Flowers	1	.05	.05	.05
					Totals	230	0	3.42	.44
Ophioglossaceae--------------	1		1		Whole	1	0.0	0.0	0.0
					Totals	1	0	0	0
Orchidaceae------------------	8		13		Leaves	7	0.0	0.39	0.06
					Stems	1	Tr	Tr	Tr
					Whole	18	0	.06	Tr
					Totals	26	0	.39	.02
Orobanchaceae----------------	1		1		Whole	1	0.0	0.0	0.0
					Totals	1	0	0	0
Osmundaceae------------------	1		2		Leaves	3	0.0	0.07	0.02
					Stems	1	0	0	0
					Whole	9	0	0	0
					?	1	0	0	0
					Totals	14	0	.07	Tr
Oxalidaceae------------------	1		2		Leaves	1	0.0	0.0	0.0
					Whole	2	0	0	0
					Totals	3	0	0	0
Palmaceae--------------------	3		3		Leaves	3	0.21	0.50	0.35
					Totals	3	.21	.50	.35
Pandanaceae------------------	1		1		Leaves	1	1.32	1.32	1.32
					Totals	1	1.32	1.32	1.32

TABLE 2.--Continued

Family	Genera		Species		Plant part[1]	Tests for rubber content			
	Tested	Not tested	Tested	Not tested		No.	Low	High	Mean
	No.	No.	No.	No.			Pct.	Pct.	Pct.
Papaveraceae------------------	4		5		Leaves	6	0.0	0.15	0.02
					Stems	1	0	0	0
					Whole	15	0	.42	.03
					?	2	0	0	0
					Totals	24	0	.42	.02
Passifloraceae----------------	1		5		Leaves	4	0.0	0.05	0.01
					Whole	11	0	.04	.01
					?	3	0	0	0
					Totals	18	0	.05	.01
Phytolaccaceae----------------	4		5		Leaves	18	0.0	0.26	0.02
					Stems	9	0	.19	.02
					Whole	10	0	.13	.02
					?	6	0	0	0
					Totals	43	0	.26	.02
Pinaceae----------------------	3		4		Leaves	1	0.0	0.0	0.0
					Whole	3	.03	.11	.08
					Totals	4	0	.11	.06
Piperaceae--------------------	1		1		Whole	1	0.33	0.33	0.33
					Totals	1	.33	.33	.33
Pittosporaceae----------------	1		1		Leaves	3	0.0	2.46	0.82
					Stems	1	0	0	0
					Trimmings	1	0	0	0
					Totals	5	0	2.46	.49
Plantaginaceae----------------	1		6	1	Leaves	5	0.0	0.0	0.0
					Whole	17	0	.09	.01
					?	3	0	0	0
					Totals	25	0	.09	.01
Platanaceae-------------------	1		1		Leaves	6	0.0	0.0	0.0
					Totals	6	0	0	0
Plumbaginaceae----------------	1		1		Leaves	2	0.0	0.0	0.0
					Totals	2	0	0	0
Polemoniaceae-----------------	2		5		Leaves	8	0.0	0.0	0.0
					Whole	10	0	.13	.03
					?	2	0	Tr	Tr
					Totals	20	0	.13	.01
Polygalaceae------------------	1		21	2	Leaves	5	0.0	0.0	0.0
					Stems	1	0	0	0
					Whole	37	0	.29	.03
					?	5	0	Tr	Tr
					Totals	48	0	.29	.02

TABLE 2.--Continued

Family	Genera		Species		Plant part[1]	Tests for rubber content			
	Tested	Not tested	Tested	Not tested		No.	Low	High	Mean
	No.	No.	No.	No.			Pct.	Pct.	Pct.
Polygonaceae------------------	13		43		Leaves	83	0.0	0.31	0.01
					Stems	15	0	.13	.01
					Whole	218	0	.30	Tr
					?	7	0	0	0
					Flowers	1	0	0	0
					Fruit	1	0	0	0
					Totals	325	0	.31	Tr
Polypodiaceae-----------------	15		22		Leaves	12	0.0	0.51	0.14
					Stems	3	0	.10	.03
					Whole	36	0	.90	.04
					?	2	0	0	0
					Totals	53	0	.90	.07
Polyporaceae------------------	1		1		Whole	1	0.0	0.0	0.0
					Totals	1	0	0	0
Polytrichaceae----------------	1		1		Whole	1	0.0	0.0	0.0
					Totals	1	0	0	0
Pontederaceae-----------------	2		2		Leaves	3	0.0	0.0	0.0
					Whole	2	0	.08	.04
					?	1	0	0	0
					Totals	6	0	.08	.01
Portulacaceae-----------------	2		5		Leaves	2	0.0	Tr	Tr
					Whole	14	0	.13	.01
					?	2	0	0	0
					Totals	18	0	.13	.01
Potamogetonaceae--------------	1		1		?	1	0.0	0.0	0.0
					Totals	1	0	0	0
Primulaceae-------------------	3		10		Leaves	24	0.0	0.08	Tr
					Stems	1	0	0	0
					Whole	10	0	.44	.05
					?	5	0	0	0
					Totals	40	0	.44	.02
Proteaceae--------------------	1		1		Leaves	2	0.0	0.15	0.08
					Totals	2	0	.15	.08
Psilotaceae-------------------	1		1		Whole	1	0.0	0.0	0.0
					Totals	1	0	0	0
Punicaceae--------------------	1		1		Leaves	1	1.30	1.30	1.30
					Totals	1	1.30	1.30	1.30
Pyrolaceae--------------------	1		2		Whole	4	0.0	0.0	0.0
					Totals	4	0	0	0
Ranunculaceae-----------------	10		18		Leaves	20	0.0	0.0	0.0
					Whole	35	0	.31	.03
					?	2	0	0	0
					Totals	57	0	.31	.02

TABLE 2.--Continued

Family	Genera		Species		Plant part[1]	Tests for rubber content			
	Tested	Not tested	Tested	Not tested		No.	Low	High	Mean
	No.	No.	No.	No.			Pct.	Pct.	Pct.
Resedaceae--------------------	1		1		Whole	1	0.0	0.0	0.0
					Totals	1	0	0	0
Rhamnaceae--------------------	8		12		Leaves	44	0.0	0.13	Tr
					Stems	7	0	0	0
					Whole	6	0	.11	.03
					?	4	0	Tr	Tr
					Seeds	1	0	0	0
					Totals	62	0	.13	Tr
Rhizophoraceae----------------	1		1		Leaves	7	0.0	0.45	0.06
					Stems	6	0	.04	.01
					?	1	Tr	Tr	Tr
					Fruit	1	0	0	0
					Totals	15	0	.45	.03
Rosaceae----------------------	28		65	2	Leaves	86	0.0	0.43	0.03
					Stems	10	0	.29	.04
					Whole	90	0	.27	.02
					?	12	0	Tr	Tr
					Bark	1	0	0	0
					Top stem	2	0	0	0
					Totals	201	0	.43	.02
Rubiaceae---------------------	23		39		Leaves	117	0.0	5.71	1.01
					Stems	60	0	4.17	.12
					Whole	67	0	1.82	.40
					?	34	0	5.06	1.23
					Bark	1	0	0	0
					Root bark	1	0	0	0
					Totals	280	0	5.71	.70
Rutaceae----------------------	7		13		Leaves	31	0.0	2.39	0.12
					Stems	20	0	.14	.03
					Whole	1	0	0	0
					?	4	0	0	0
					Fruit	1	.14	.14	.14
					Seeds	1	0	0	0
					Totals	58	0	2.39	.08
Salicaceae--------------------	2		14		Leaves	58	0.0	0.11	Tr
					Stems	3	0	.51	.22
					Whole	8	0	.43	.17
					Totals	69	0	.51	.03
Santalaceae-------------------	2		2		Leaves	3	0.0	0.0	0.0
					Whole	1	Tr	Tr	Tr
					Totals	4	0	Tr	Tr
Sapindaceae-------------------	5		7		Leaves	14	0.0	0.47	0.06
					Stems	9	0	.13	.03
					Whole	2	.09	.31	.20
					?	1	0	0	0
					Totals	26	0	.47	.06

TABLE 2.--Continued

Family	Genera		Species		Plant part[1]	Tests for rubber content			
	Tested	Not tested	Tested	Not tested		No.	Low	High	Mean
	No.	No.	No.	No.			Pct.	Pct.	Pct.
Sapotaceae-------------------	5		11		Leaves	42	0.28	6.00	2.11
					Stems	24	0	.71	.05
					Whole	4	.09	2.03	1.02
					?	17	0	2.56	1.04
					Totals	87	0	6.00	1.28
Sarraceniaceae---------------	1		4		Leaves	2	0.0	0.0	0.0
					Whole	5	0	0	0
					Totals	7	0	0	0
Saururaceae------------------	1		1		Leaves	7	0.0	1.92	1.03
					Stems	3	0	.07	.02
					Whole	6	.02	1.72	.74
					?	2	Tr	.71	.36
					Totals	18	0	1.92	.69
Saxifragaceae----------------	8		17		Leaves	39	0.0	2.07	0.09
					Stems	4	0	.02	Tr
					Whole	21	0	0	0
					?	1	0	0	0
					Top stems	1	0	0	0
					Totals	66	0	2.07	.05
Scrophulariaceae-------------	29		41		Leaves	87	0.0	2.56	0.07
					Stems	4	0	.42	.10
					Whole	88	0	1.36	.09
					?	24	0	1.42	.06
					Flowers	1	.03	.03	.03
					Seeds	1	0	0	0
					Totals	205	0	2.56	.07
Selaginellaceae--------------	1		1		Whole	1	0.0	0.0	0.0
					Totals	1	0	0	0
Simarubaceae-----------------	3		3		Leaves	10	0.0	0.0	0.0
					Stems	6	0	0	0
					Whole	1	Tr	Tr	Tr
					?	4	0	0	0
					Totals	21	0	Tr	Tr
Solanaceae-------------------	11		38		Leaves	56	0.0	0.95	0.04
					Stems	24	0	.09	.01
					Whole	116	0	.73	.01
					?	8	0	0	0
					Bark	1	0	0	0
					Flowers	1	0	0	0
					Fruit	2	0	0	0
					Leaves, flowers, fruit	1	.38	.38	.38
					Seeds	1	0	0	0
					Totals	210	0	.95	.02
Staphyleaceae----------------	1		1		Leaves	1	0.0	0.0	0.0
					Totals	1	0	0	0

TABLE 2.--Continued

Family	Genera		Species		Plant part[1]	Tests for rubber content			
	Tested	Not tested	Tested	Not tested		No.	Low	High	Mean
	No.	No.	No.	No.			Pct.	Pct.	Pct.
Sterculiaceae	5		5		Leaves	9	0.0	0.58	0.06
					Stems	2	0	.05	.02
					Whole	2	0	.09	.04
					?	4	0	1.42	.36
					Totals	17	0	1.42	.13
Styracaceae	1		3		Leaves	10	0.0	0.27	0.03
					Stems	1	0	0	0
					Totals	11	0	.27	.02
Symplocaceae	1		1		Leaves	10	0.0	0.0	0.0
					Totals	10	0	0	0
Tamaricaceae	1		1		Leaves	1	0.0	0.0	0.0
					Whole	4	0	0	0
					Totals	5	0	0	0
Taxaceae	1		1		Leaves	1	0.04	0.04	0.04
					Stems	1	0	0	0
					Totals	2	0	.04	.02
Taxodiaceae	1		1		Whole	2	0.0	0.0	0.0
					Totals	2	0	0	0
Terminaliaceae	2		2		Leaves	15	0.45	2.55	1.35
					Stems	10	0	.25	.03
					?	1	.85	.85	.85
					Totals	26	0	2.55	.82
Theaceae	2		2		Leaves	5	0.0	0.0	0.0
					Totals	5	0	0	0
Theophrastaceae	1		1		Leaves	5	0.0	0.0	0.0
					Stems	4	0	0	0
					?	1	0	0	0
					Flowers	1	0	0	0
					Fruit	1	0	0	0
					Totals	12	0	0	0
Tiliaceae	1		2		Leaves	5	0.0	1.18	0.24
					Stems	1	0	0	0
					Totals	6	0	1.18	.20
Turneraceae	1		3		Leaves	3	0.0	0.0	0.0
					Whole	9	0	.03	.01
					?	1	0	0	0
					Totals	13	0	.03	.01
Typhaceae	1		1		Leaves	1	0.0	0.0	0.0
					Whole	11	0	.06	.01
					Totals	12	0	.06	.01

TABLE 2.--Continued

Family	Genera		Species		Plant part[1]	Tests for rubber content			
	Tested	Not tested	Tested	Not tested		No.	Low	High	Mean
	No.	No.	No.	No.			Pct.	Pct.	Pct.
Ulmaceae----------------------	4		11		Leaves	45	0.0	0.20	0.01
					Stems	8	0	0	0
					Whole	4	0	.05	.01
					?	2	0	0	0
					Totals	59	0	.20	.01
Umbelliferae------------------	16		27		Leaves	30	0.0	Tr	Tr
					Stems	2	0	0	0
					Whole	61	0	.20	.01
						5	0	0	0
					otals	98	0	.20	.01
Urticaceae--------------------	5		8		Leaves	18	0.0	0.40	0.02
					Whole	24	0	.02	Tr
					?	6	0	Tr	Tr
					Totals	48	0	.40	.01
Verbenaceae-------------------	12		37		Leaves	99	0.0	2.22	0.32
					Stems	29	0	.12	.02
					Whole	76	0	1.09	.02
					?	20	0	.57	.09
					Totals	224	0	2.22	.21
Violaceae---------------------	1		6		Leaves	5	0.0	Tr	Tr
					Whole	10	0	.01	Tr
					Totals	15	0	.01	Tr
Vitaceae----------------------	4		12		Leaves	38	0.0	0.66	0.03
					Stems	8	0	.07	.01
					Whole	25	0	.08	Tr
					?	5	0	0	0
					Bark	1	0	0	0
					Totals	77	0	.66	.02
Xyridaceae--------------------	1		2		Whole	5	0.0	0.0	0.0
					Totals	5	0	0	0
Zygophyllaceae----------------	4		4		Leaves	4	0.56	0.85	0.70
					Stems	1	.05	.05	.05
					Whole	41	0	.27	.01
					Totals	44	0	.85	.04

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[1] The designation "stem" included not only true stems but small branches, twigs, petioles, pedicels, etc., that would be separated from the leaves and roots by a laboratory helper. The designation "Whole" indicates that the entire specimen as received was ground up without separation into plant parts. In such cases, the specimen may be representative of the whole plant or may have been primarily leaves, stems, roots, or unequal portions of any or all such parts. The question mark, "?", indicates that no record was found of the specific plant part tested. In the later stages, after it was found that the richest concentrations of rubber were usually in the leaves, only leaves were collected and tested. There was no precise designation of this change, which was followed by dropping further designation of the plant part tested. Such specimens are designated in this column by the question mark, "?".

Geographical Area Involved in the Edison Surveys

Edison's collections were made in widely separated areas in 40 States (including Alaska). The most abundant family in the collections, the Compositae, was represented in collections from 33 States. Florida, where specimens representing 162 families were collected, and New Jersey, 103 families, supplied the major variety to the collections, together furnishing specimens representing 178 families, 73 being collected in Florida but not in New Jersey, 15 in New Jersey but not in Florida, and 89 being collected in both States. Since these two states housed the home laboratory at West Orange, N.J., and the winter laboratory and experiment station at Fort Myers, Fla., it was natural that they should also serve as centers for local collecting, some of which was done by Mr. Edison in person. Only 8 of the 186 plant families represented in the collection were not collected in either Florida or New Jersey.

The chief efforts of the plant collectors organized directly by Mr. Edison were spent in the general area between West Orange and Fort Myers. The major contribution of specimens from other areas was by employees of the Union Pacific Railroad and this contribution is reflected in the high number of specimens from the Midwest and the Northwest. In addition to Florida and New Jersey, Georgia with 96 families, North Carolina with 88 families, South Carolina with 75 families, Virginia with 54 families, and West Virginia with 41 families contributed great variety to the collections. Samples of only a single family each were collected in Alaska (a lichen, Cladoniaceae), Arkansas (Sapotaceae), Indiana (Commelinaceae), Kentucky (Lobeliaceae), Michigan (Euphorbiaceae), Missouri (Compositae), New Hampshire (Compositae), and Pennsylvania (Apocynaceae).

In addition to the States listed above as the major sources of variety in the collections, the following States contributed specimens of more than 10 families each: Alabama, 31; California, 16; Colorado, 27; Idaho, 27; Kansas, 34; Louisiana, 13; Montana, 11; Nebraska, 38; Nevada, 10; New Mexico, 20; Oregon, 23; Tennessee, 19; Texas, 25; Utah, 34; and Washington, 22. Representatives of 53 families were recorded only as coming from the Union Pacific Railroad without any notation of a particular State.

The Compositae, collected in 33 States, represented the widest distribution in the collections. An additional 30 families were represented in collections from 10 States each. The narrowest distribution was of 52 families collected in only a single State each and 31 families collected in only two States each.

LITERATURE CITED

(1) BECKETT, R. E., and STITT, R. S.
1935. The desert milkweed (Asclepias subulata) as a possible source of rubber. U.S. Dept. Agr. Tech. Bul. 472, 20 pp., illus.

(2) ________STITT, R.S., and DUNCAN. E. N.
1938. Rubber-content and habits of a second desert milkweed (Asclepias erosa) in southern California and Arizona. U.S. Dept. Agr. Tech. Bul. 604, 12 pp., illus.

(3) BRANDES, E. W.
1947. Progress toward an assured natural rubber supply. India Rubber World 116: 491-497, 507, illus.

(4) BUEHRER, T. F., and BENSON, L.
1945. Rubber content of native plants of the southwestern desert. Ariz. Univ. Bul. 108, 33 pp.

(5) CARNAHAN, G. H.
1926. The production of guayule rubber. Indus. and Engin. Chem. 18: 1124-1126.

(6) FIGART, D. M.
1925. The plantation rubber industry in the Middle East. U.S. Dept. Com. Trade Promotion Ser. 2. Crude Rubber Survey, 317 pp., illus.

(7) FOX, C.P.
1912. So-called "Osage-orange rubber"--a product of Kansas. Internatl. Cong. Chem. (Orig. Commun.) 25: 593-596.

(8) ________
1912. Milkweed rubber (*Asclepias syriaca*). India Rubber Jour. 44: 352.

(9) ________
1912. Apocynum on Indian hemp rubber. Indus. and Engin. Chem. 4 (5): 387-388.

(10) ________
1913. Wild lettuce rubber. Indus. and Engin. Chem. 5(6): 477-478.

(11) GOWANS, W. J., and CLARK, F. E.
1952. Determination of rubber hydrocarbon by a modified bromination method. Analyt. Chem. 24: 5[illegible]9-532; Rubber Chem. Tech. 25: 961.

(12) HALL, H. M., and GOODSPEED, T.
1919. A rubber plant survey of Western North America. Calif. Univ. Bot. Pubs. 7: 159-278.

(13) ________ and LONG, F. L.
1921. Rubber-content of North American plants. Carnegie Inst. Wash. Pub. 313, 65 pp., illus.

(14) HOLT, E. G.
1927. Marketing of crude rubber (with trade statistics). U.S. Dept. Com. Trade Promotion Ser. 55. Crude Rubber Survey, 257 pp., illus.

(15) KAY, ALFRED, and KAY, ELIZABETH.
1933. The plant world in Florida. From the Published Manuscripts of Dr. Henry Nehrling. 304 pp., illus.

(16) McCALLUM, W. B.
1926. The botany and cultural problems of guayule. Indus. and Engin. Chem. 18: 1121-1124.

(17) MINSHALL, W. H.
1957. Rubber and resin-content of native and introduced plants of Canada. Canada Dept. Agr., Ottawa, 51 pp.

(18) MITCHELL, J. H., RICE, M. A., and RODERICK, D. B.
1942. Rubber analysis of plants in South Carolina. Science 95: 624-625.

(19) MOXON, A. L., and WHITEHEAD, E. I.
1943. Rubber-content of some South Dakota plants. S. Dak. Acad. Sci. Proc. 23: 53-55.

(20) POLHAMUS, L. G.
1928. Experimental tapping of Hevea rubber trees at Bayeux, Haiti, 1924-25. U.S. Dept. Agr. Tech. Bul. 65, 31 pp.

(21) ________
1933. Rubber content of various species of goldenrod Jour. Agr. Res. 47: 149-152.

(22) ________
1957. Rubber content of miscellaneous plants. U.S. Dept. Agr. Prod. Res. Rpt. 10, 25 pp.

(23) ________
1962. Rubber: botany, cultivation, and utilization. Leonard Hill (Books) Limited, London; Interscience Publishers, Inc., New York, 449 pp. plus xvii, illus.

(24) ________HILL, H. H., and ELDER, J. A.
1934. The rubber content of two species of Cryptostegia and of an interspecific hybrid in Florida. U.S. Dept. Agr. Tech. Bul. 457, 23 pp., illus.

(25) RANDS, R. D., and POLHAMUS, L. G.
1955. Progress report on the co-operative Hevea rubber development program in Latin America. U.S. Dept. Agr. Cir. 976, 79 pp., illus.

(26) SCHURZ, W. L., HARGIS, O. D., MARBUT, C. F., and MANIFOLD, C. B.
1925. Rubber production in the Amazon Valley. U.S. Dept. Com. Trade Promotion Ser. 23. Crude Rubber Survey, 369 pp., illus.

(27) SORENSEN, H. G.
1942. Crown budding for healthy Hevea. Agr. in the Americas 2 (10): 191-193.

(28) SPENCE, DAVID.
1926. The chemistry of Guayule. Indus. and Engin. Chem. 18: 1126-1128.

(29) TREADWELL, J. C., HILL, C. R., and BENNETT, H. H.
1926. Possibilities for Para rubber production in northern Tropical America. U.S. Dept. Com. Trade Promotion Ser. 40. Crude Rubber Survey, 375 pp., illus.

(30) VANCE, C. F., MUZZAL, A. H., BUSHNELL, J. P., and BALDWIN, MARK.
1925. Possibilities for Para rubber production in the Philippine Islands. U.S. Dept. Com. Trade Promotion Ser. 17. Crude Rubber Survey, 101 pp., illus.

(31) VANDER LAAN, J. W.
1927. Production of gutta-percha, balata, chicle, and allied gums. U.S. Dept. Com. Trade Promotion Ser. 41. Crude Rubber Survey, 72 pp.

(32) WHITFORD, H. N., and ANTHONY, ALFRED.
1926. Rubber production in Africa. U.S. Dept. Com. Trade Promotion Ser. 34. Crude Rubber Survey, 136 pp., map.

(33) WILLITS, C. O., SWAIN, M. L., and OGG, C. L.
1946. Determination of rubber hydrocarbon by a gravimetric rubber bromide method. Indus. and Engin. Chem. Anal. Ed. 18: 439; Rubber Chem. Tech. 20: 320 [1947].

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